ENERGY - FROM - WASTE PLANT
VICTORIA HOSPITAL CORPORATION
LONDON, ONTARIO

AMBIENT AIR QUALITY
PRE-OPERATIONAL SURVEY
PART I
August - September, 1984

ARB-082-85-AQM

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for

The Southwestern Region
Ministry of the Environment

Air Quality and Meteorology Section
Air Resources Branch
Ministry of the Environment

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Executive Summary

Two mobile air monitoring units (MAMU) from the Air Resources Branch measured ambient air quality parameters near the site of the proposed Victoria Hospital Corporation Energy - From-Waste (EFW) plant in London. This pre-operational survey determined the background ambient air concentrations of a large number of compounds which may be emitted from the EFW plant stack in various concentrations. None of the compounds, including sulfur dioxide, carbon monoxide, nitrogen oxides, mercury, and a large number of hydrocarbons, and chlorinated hydrocarbons, exceeded or approached any Ontario air quality criteria.

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1.0 Introduction

At the request of the Southwestern Region, the Monitoring and Instrumentation Development Unit of the Air Resources Branch conducted an ambient air quality survey in London during the period August 27 to September 7, 1984. The air sampling was done as a pre-operational survey near the site of the proposed Victoria Hospital Corporation Energy - From - Waste (EFW) plant. The purpose of the survey was to determine the ambient air concentrations of a large number of compounds which may be emitted from the EFW plant stack in various concentrations, namely: sulfur dioxide (SO_2), carbon monoxide (CO), nitrogen oxides (NO_x), mercury (Hg) and a large number of hydrocarbons, and chlorinated hydrocarbons. A similar survey will be performed after the EFW plant is in operation in order to assess its impact on the ambient air quality.

Two mobile air monitoring units (MAMU) were used to maximize the amount of data obtainable during the alotted survey period, and to isolate emissions from any existing sources by doing simultaneous upwind and downwind measurements.

2.0 Mobile Air Monitoring Units (MAMU)

Two mobile air monitoring units (MAMUs) were used in the EFW plant pre-operational survey. Each unit is a self-contained mobile laboratory equipped with advanced analytical instrumentation dedicated to ambient air monitoring. The instrumentation packages in each vehicle are nearly identical to each other and are listed in Tables 1 and 2. Each MAMU was outfitted with a gas chromatograph (Hewlett-Packard 5880) coupled to an organic preconcentrator of our own design. Ambient air was drawn into the preconcentrator at 100 ml/min through a 10 mm O.D. glass cartridge containing absorbents Florisil, Molecular Sieve 13x and Spherocarb. The sampling periods were 60 minutes so that the data could be directly compared to Ministry criteria for ambient air quality. Contaminants trapped by the absorbents were thermally desorbed, prefocused and injected at the GC column head. The sample was analyzed with a 25 metre cross-linked SE 54 and OV-1 columns and equipped with flame-ionization detectors. Minimum detection limits were in the 0.2 - 5 ug/m^3 range.

3.0 Monitoring Locations

The selection of monitoring locations was based upon the list of "critical receptor" areas noted in an environmental impact study[1] and reproduced in Table 3.

As determined by the wind direction on an hourly basis, the MAMU's were positioned downwind of the site for the proposed EFW plant in whatever critical receptor area was most suitable; otherwise, schoolyards and apartment building parking lots were the usual monitoring sites. The precise monitoring locations are listed in Table 4 and displayed on the map in Figure 3.1.

4.0 Results and Discussion

A summary of the results is contained in Table 5. Sulfur dioxide (SO_2), carbon monoxide (CO), nitrogen oxides (NO_x), total hydrocarbons (THC) and mercury (Hg) were found in relatively low concentrations during all monitoring periods. The complete data set for these compounds is in Appendix A. None of the one-hour air quality criteria (or 24-hour if no one-hour criterion exists) were exceeded or approached. The data can also be presented in ½-hour average concentrations if a greater time-resolution is required in future analyses.

Although the compounds in Table 5 showed relatively low concentrations for all periods there is a small degree of uncertainty about the mercury concentrations. The mercury analyzer seemed to function properly during the survey, was calibrated daily, and was checked by the service department of the manufacturer approximately two weeks after the survey (only minor adjustments were needed). However, there are no recent background measurements of mercury in urban ambient air in Ontario available for comparison. Several years ago typical levels were found to be less than 0.10 ug/m^3 in the Toronto area. Since the mercury levels reported herein are generally above the 0.10 ug/m^3 level, there will be greater confidence attached to these results when the measurements are repeated in the next phase of the pre-operational study.

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1. By Victoria Hospital's Consultants, presented to Environmental Assessment Board hearing in 1983.

The complete set of gas chromatographic (GC) results is contained in Appendix B. The total organic compounds (TOC) concentration, as determined by the gas chromatograph for one-hour sampling periods, was always relatively low compared to values for typical urban air in Southern Ontario. None of the 117 organic compounds monitored by GC exceeded or approached their Ontario criteria. Consideration of the toluene: benzene: xylene: ethylbenzene ratio (TBXE) during those few periods when the TOC concentration exceeded 200 ug/m^3 showed TBXE ratios (aprox. 6:3:4:1) very similar to the value known for automotive exhaust emissions (4:3:4:1). Although Commissioners Road was closed to through traffic between Wellington Road and Adelaide Street during the survey period, there was a lot of heavy equipment and vehicle activity due to the road crews. In addition, there was increased vehicle traffic on Adelaide Street as part of the detour. There is also a commercial/light industrial area on Adelaide Street between Commissioners Road and Thompson Road; this area contains two gasoline stations, two printing shops and a linen supply company. These potential sources, together with the gasoline station near the EFW plant site, may account for any deviation from the normal pattern of automotive exhaust emissions.

5.0 Conclusions

All compounds were found only in relatively small concentrations throughout the survey period. Ontario ambient air quality criteria were not exceeded or approached at any time.

TABLE #1

THE INSTRUMENTATION OF MOBILE AIR MONITORING UNIT #1

Instrument	Manufacturer	Analytical Technique	Full Scale Sensitivity
THC, CH4, TH-M analyzer	Ingenieur-Produktions-Gruppe Munchen (IPM) RS-t	Dual flame ionization	50 ppm THC (as CH4)
H2S,SO2,NOx sources	Hartmann & Braun Prufgasgenerator	N/A	N/A
H2S/SO2 analyzer	Monitor Labs 8850 c/w ML 8770	Fluorescence	1.0 ppm SO2 0.5 ppm H2S
NOx, NO2, NO analyzer	Monitor Labs 8840	Chemi-Luminescence	1.0 ppm NOx (as NO2)
CO analyzer	Thermo Electron P48	Gas Filter Correlation	100 ppm CO
O3 analyzer/ source	Dasibi 1003-AAS	UV Absorption	1.0 ppm O3
CO & THC sources	Matheson	Compressed Gas	N/A
Gas Chromatograph	HP 5880 Dual Capillary Column	Flame Ion-ization Det.	as set per calibrations

Meteorological Instrumentation

Instrument	Manufacturer	Scale
** Wind speed	Lambrecht GmBH	km/hr
** Wind direction	Lambrecht GmBH	degrees
Temperature	Weather Measure (WM) T621	degrees Celsius
Humidity	WM-HM-11P	absolute & %
Barometric pressure	WM-BM70-B242	millibars
Solar Radiation	WM Star Pyranometer	milliwatts/cm2

** These instruments are located on top of a 10 metre retractable tower

TABLE #2

THE INSTRUMENTATION OF MOBILE AIR MONITORING UNIT #2

Instrument	Manufacturer	Analytical Technique	Full Scale Sensitivity
THC, CH4, TH-M analyzer	Ingenieur-Produktions-Gruppe Munchen (IPM) RS-t	Dual flame ionization	50 ppm THC (as CH4)
H2S, SO2, NOx sources	Hartmann & Braun Prufgasgenerator	N/A	N/A
H2S analyzer	Monitor Labs 8850 c/w ML 8770	Fluorescence	0.5 ppm H2S
SO2 analyzer	Hartmann & Braun Picoflux 2T	Conducto-metric	3.0 ppm SO2
NOx, NO2, NO analyzer	Monitor Labs 8840	Chemi-Luminescence	1.0 ppm NOx (as NO2)
CO analyzer	Thermo Electron P48	Gas Filter Correlation	100 ppm CO
O3 analyzer/ source	Dasibi 1003-AAS	UV Absorption	1.0 ppm O3
CO & THC sources	Matheson	Compressed Gas	N/A
Gas Chromatograph	HP 5880 Dual Capillary Column	Flame Ion-ization Det.	as set per calibrations

Meteorological Instrumentation

Instrument	Manufacturer	Scale
** Wind speed	Lambrecht GmBH	km/hr
** Wind direction	Lambrecht GmBH	degrees
Temperature	Weather Measure (WM) T621	degrees Celsius
Humidity	WM-HM-11P	absolute & %
Barometric pressure	WM-BM70-B242	millibars
Solar Radiation	WM Star Pyranometer	milliwatts/cm2

** These instruments are located on top of a 10 metre retractable tower

Table 3

Critical Receptors[2]

	Name	Distance from Victoria Hospital EFW km	Height Above EFW Groundlevel m
1.	Bristol Place Apts[1]	0.864	36
2.	Westminister Hospital	0.49	15.6
3.	Pond Mills and Commissioners Rd.	1.77	14.6
4.	Planned Apt. Bldg.[1]	0.30	32
5.	New Victoria Hospital	0.36	29.0
6.	New Parkwood Hospital[1]	0.231	28
7.	Grade @ 6 km SW of site	6.04	52.2
8.	Grade @ 8 km SW of site	8.05	43.9

Note: [1] Revised distance and elevation of receptor
2. As contained in Victoria Hospital's consultant's report presented at Environmental Assessment Board hearing in early 1983.

Table 4
Monitoring Locations and Periods

	MAMU #1			MAMU #2		
Date	Period #/Time	Location	Map I.D. Fig. 3.1	Period #/Time	Location	Map I.D. Fig. 3.1
August 27	271A 16:42-18:00	C.C. Carrothers School	A	271 B 16:50-17:51	Parkwood Hospital South Side	B
28	281 A 14:48-16:49	Boys Club - Tumblesons Pond on Southdale	D	283 B 15:11-17:06	G.A. Wheable Secondary School	E
30	302 A 14:52-18:57	Westminister Apts.	F	303 B 16:57-18:59	Glen Cairn Public School	G
31	312 A 11:30-13:31	New Parking Lot, S Of New Victoria Hosp.	H	312 B 10:12-12:11	Westminister Apts.	F
	313 A 13:58-16:00	#7 Lupus Place	J	313 B 12:47-15:43	Arthur Stringer Public School	K
Sept. 4	043 A 12:07-13:44	Millers Green Sub-Division	M	042 B 11:44-12:44	Bristol Apts	L
	044 A 13:46-16:03	Millers Green Sub-Division	M	043 B 12:49-15:52	Bristol Apts	L
5	052 A 11:04-14:01	WCW - Veterans Home	N	052 B 10:56-14:01	Parkwood Hospital South Side	B
	053 A 14:43-1653	Sutton Farm, Approx. 3 km NE Lambeth on Route 24	O	053 B 14.:36-16:38	Liftow Parking Lot 2 km ENE Lambeth on Route 135	P
Sept. 6	064 A 15:14-16:30	School at Thompson and Chesterfield	R	063 B 15:00-17:02	St. Sebastion Separate School	Q
7	072 A 10:42-12:40	G.A. Wheable Secondary School	E	071 B 10:36-11:51	Rowntree Park, 1 km NW of EFW Site	S

Table 5
Results Summary - Maximum 1-hr Average Concentration
(ppm, except as noted)

Monitoring Period #	SO_2	CO	NO_x	Hg_3 ug/m	THC	TOC (ug/m^3)	Upwind or Downwind
271 A*	-	-	-	-	-	13	D
271 B	n.d.	0.7	-	-	1.3	8	U
281 A	n.d.	-	0.02	-	1.8	20,41	U
283 B	0.02	1.2	0.03	-	2.4	482,328	D
302 A	0.03	2.0	0.02	-	1.4	64,121	D
303 B	n.d.	0.5	n.d.	n.d.	1.3	50,86,36	D
312 A	0.01	0.9	0.01	-	1.3	18,32	U
312 B	n.d.	1.1	0.02	0.10	1.3	74,93	D
313 A	n.d.	0.7	0.01	-	1.7	24,27	D
313 B	0.01	0.5	n.d.	0.14	1.5	23,20,20	D
042 B	n.d.	-	-	0.25	1.2	138	D some MAMU exh.
043 A	0.02	-	0.02	-	1.4	4,12	D
043 B	n.d.	2.2	0.06	0.37	1.3	152,209,247	D some MAMU exh
044 A	n.d.	0.7	0.01	-	1.4	4,7	D
052 A	n.d.	0.5	0.02	-	1.2	14,12,13	D
052 B	n.d.	0.2	0.02	0.38	1.4	11,191,72	D
053 A	n.d.	1.4	0.07	-	1.3	64,90	D
053 B	n.d.	n.d.	n.d.	0.25	1.3	63,26	D
063 B	n.d.	0.6	0.02	-	1.1	83,63	D
064 A	0.01	1.7	0.02	-	1.2	67	D
071 B	0.04	0.6	0.05	-	1.3	87	D
072 A	0.04	0.4	0.02	-	1.4	36,65	D
Ontario Air Quality Criterion	0.25 (1-hr)	30 (1-hr)	0.20 (1-hr) NO_2	2.0 (24-hr)	-	-	
Min. Det. Level	0.01	0.1	0.01	0.05	0.1		

* - A refers to MAMU #1
  - B refers to MAMU #2

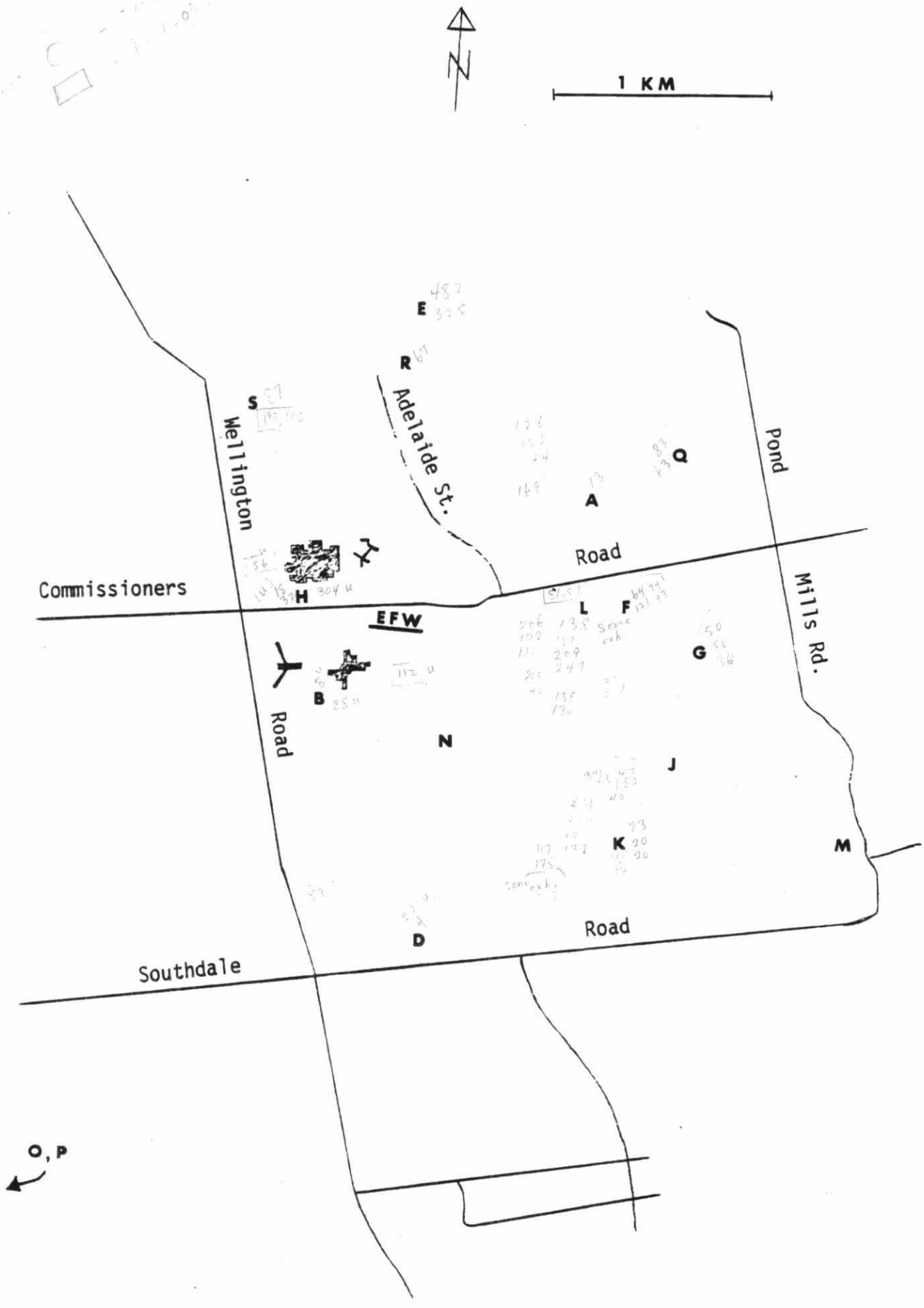

Figure 3.1 Monitoring Locations in Table 4

Appendix A

LONDON_84 : 041A

Start: 84/09/04 11:39 Scan: 60 sec
Average: 60.00 min Report: 10.00 min
Loc: MILLER'S GREEN NEW DVPT

Time	CO Temp	THC Humidity	SO2 Barom	Non-CH4 Wind-Spd	Methane Wind-Dir	NOx	NO2	NO	Ozone	SolarRad
11:39-12:39	- -	- -	- -	- -	- -	-	-	-	-	-
11:49-12:49	- -	- -	- -	- -	- -	-	-	-	-	-
11:59-12:59	- 18.8	1.30 61.	.02 1000.9	.21 15.	1.12 299.	.02	nd	.02	.019	.066
12:09-13:09	- 19.0	1.32 61.	.02 1000.9	.22 15.	1.13 302.	.01	nd	.01	.019	.063
12:19-13:19	- 19.0	1.34 61.	.01 1000.8	.24 16.	1.13 302.	.01	nd	.01	.019	.061
12:29-13:29	- 18.9	1.36 60.	.01 1000.6	.26 17.	1.13 305.	.01	nd	.01	.020	.061
12:39-13:39	- 19.2	1.37 59.	nd 1000.6	.27 18.	1.13 305.	.01	nd	.01	.020	.071
12:49-13:49	- 19.6	1.39 58.	nd 1001.0	.29 19.	1.13 308.	nd	nd	nd	.021	.072
12:59-13:59	- 19.5	1.42 57.	nd 1000.9	.31 23.	1.15 311.	nd	nd	nd	.021	.068
13:09-14:09	- 19.5	1.41 56.	nd 1000.8	.30 25.	1.15 308.	nd	nd	nd	.022	.075
13:19-14:19	- 19.6	1.40 55.	nd 1000.7	.29 26.	1.14 305.	nd	nd	nd	.022	.078
13:29-14:29	- 19.5	1.40 54.	nd 1000.6	.29 27.	1.14 306.	nd	nd	nd	.022	.070
13:39-14:39	- 19.5	1.40 54.	nd 1000.4	.29 25.	1.14 305.	nd	nd	nd	.022	.071
13:49-14:49	- 19.6	1.40 54.	nd 1000.3	.29 25.	1.14 305.	nd	nd	nd	.022	.071
13:59-14:59	.6 19.7	1.38 53.	nd 1000.1	.28 23.	1.12 301.	nd	nd	nd	.023	.073
14:09-15:09	.6 19.9	1.37 52.	nd 999.8	.29 22.	1.11 303.	nd	nd	nd	.023	.072

LONDON_84 : 041A

Time	CO Temp	THC Humidity	SO2 Barom	Non-CH4 Wind-Spd	Methane Wind-Dir	NOx	NO2	NO	Ozone	SolarRad
14:19-15:19	.6 20.0	1.39 51.	nd 999.6	.30 22.	1.11 303.	nd	nd	nd	.023	.071
14:29-15:29	.6 20.2	1.39 51.	nd 999.3	.31 22.	1.10 304.	nd	nd	nd	.023	.072
14:39-15:39	.7 20.2	1.41 50.	nd 999.1	.33 21.	1.11 310.	nd	nd	nd	.023	.066
14:49-15:49	.7 19.7	1.40 52.	nd 998.9	.33 20.	1.10 316.	nd	nd	nd	.022	.058
14:59-15:59	.7 19.4	1.41 55.	nd 998.8	.34 21.	1.10 326.	.01	nd	nd	.020	.054

LONDON B4 : 041A

Statistics	CO Temp	THC Humidity	SO2 Barom	Non-CH4 Wind-Spd	Methane Wind-Dir	NOx	NO2	NO	Ozone	SolarRad
Units	ppm d C	ppm %-rel	ppm mbar-msl	ppm km/h	ppm deg	ppm	ppm	ppm	ppm	W/cm^2
Arith. Mean	.67 19.4	1.375 56.3	.009 1000.7	.283 -	1.122 -	.009	.006	.007	.021	.0658
Std. Dev.	.13 1.1	.073 5.0	.009 3.7	.060 -	.039 -	.014	.003	.019	.004	.0261
Geo. Mean	.66 -	1.373 -	.007 -	.276 -	1.122 -	.007	.006	.005	.020	-
Geo.Std.Dev	1.22 -	1.054 -	1.794 -	1.270 -	1.035 -	1.779	1.374	1.523	1.322	-
Min Reading	.25 11.0	1.201 47.9	.005 980.8	.113 4.8	1.028 1.4	.005	.005	.005	.002	.0159
Max Reading	1.30 21.3	1.575 68.1	.078 1021.4	.467 39.3	1.254 356.4	.150	.018	.214	.028	.1022
Min Average	.60 19.8	1.296 50.4	.005 998.8	.208 14.8	1.100 298.7	.005	.005	.005	.019	.0543
Max Average	.75 20.2	1.423 61.0	.018 1001.0	.340 26.6	1.148 326.3	.015	.008	.015	.023	.0781
# Valid Rdgs	118. 240.	240. 240.	240. 240.	240. 240.	240. 240.	240.	240.	240.	240.	240.
Min.Det.Lev	.10 -	.100 -	.010 950.0	.100 -	.100 -	.010	.010	.010	.004	-
1 hr Crit.	30.00 -	- -	.250 -	- -	- -	-	.200	-	.080	-

- Invalid Data / Not Calculated
nd Average is less than Min. Detectable Level
m One or more readings Missing
Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %
Averaging Started at Nearest: .0 min

LONDON 84 : 042B

Start: 84/09/04 11:43 Scan: 60 sec
Average: 60.00 min Report: 10.00 min
Loc: THE BRISTOL APARTMENTS

Time	TRS	THC	SO2	Non-CH4	Methane	Hg	T-abs-Hg	Ozone	SolarRad	Temp
	Humidity	Barom	Wind-Spd	Wind-Dir						
11:43-12:43	nd	1.18	nd	-	-	.25	.00	.022	.075	18.8
	-	1021.3	5.	319.						

LONDON_84 : 0428 .

Statistics	TRS Humidity	THC Barom	SO2 Wind-Spd	Non-CH4 Wind-Dir	Methane	Hg	T-abs-Hg	Ozone	SolarRad	Temp
Units	ppm %-rel	ppm mbar-msl	ppm km/h	ppm deg	ppm	ug/m^3	---	ppm	W/cm^2	d C
Arith. Mean	.0018 -	1.185 1021.3	.009 -	- -	-	.254	.000	.022	.0752	18.8
Std. Dev.	.0014 -	.205 .1	.004 -	- -	-	.022	.000	.003	.0310	.8
Geo. Mean	.0014 -	1.168 -	.008 -	- -	-	.253	-	.021	-	-
Geo.Std.Dev	1.8212 -	1.185 -	1.569 -	- -	-	1.084	-	1.132	-	-
Min Reading	.0010 -	.825 1021.0	.005 1.0	- 15.7	-	.230	.000	.015	.0173	17.6
Max Reading	.0062 -	1.842 1021.5	.016 16.1	- 351.1	-	.340	.000	.028	.1093	20.4
Min Average	.0018 -	1.185 1021.3	.009 5.3	- 318.9	-	.254	.000	.022	.0752	18.8
Max Average	.0018 -	1.185 1021.3	.009 5.3	- 318.9	-	.254	.000	.022	.0752	18.8
# Valid Rdgs	60. 0.	60. 60.	60. 60.	0. 60.	0.	60.	60.	60.	60.	60.
Min.Det.Lev	.0020 -	.100 950.0	.010 -	.100 -	.100	.050	-	.004	-	-
1 hr Crit.	.0270 -	- -	.250 -	- -	-	-	-	.080	-	-

- Invalid Data / Not Calculated
rd Average is less than Min. Detectable Level
m One or more readings Missing
* Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %
Averaging Started at Nearest: .0 min

LONDON_94 : 043B

Start: 04/09/04 12:48 Scan: 60 sec
Average: 60.00 min Report: 10.00 min
Loc: THE BRISTOL APARTMENTS

Time	CO T-abs-Hg	TRS Ozone	THC SolarRad	SO2 Temp	Non-CH4 Humidity	Methane Barom	NOx Wind-Spd	NO2 Wind-Dir	NO	Hg
12:48-13:48	1.8 .00	.004 .023	1.16 .081	nd 19.0	- -	- 1020.7	.03 9.	nd 305.	.03	.32
12:58-13:58	1.6 .00	.004 .023	1.09 .082	nd 19.1	- -	- 1020.7	.03 10.	nd 304.	.03	.33
13:08-14:08	1.9 .00	.005 .024	1.10 .088	nd 19.3	- -	- 1020.7	.04 10.	nd 303.	.04	.33
13:18-14:18	2.2 .00	.005 .023	1.13 .091	nd 19.7	- -	- 1020.7	.05 10.	nd 304.	.06	.35
13:28-14:28	2.2 .00	.005 .023	1.13 .082	nd 19.7	- -	- 1020.8	.05 10.	nd 306.	.06	.37
13:38-14:38	2.1 .00	.005 .023	1.15 .083	nd 20.0	- -	- 1020.8	.06 9.	nd 312.	.06	.36
13:48-14:48	2.1 .00	.005 .022	1.16 .088	nd 20.1	- -	- 1020.8	.06 10.	nd 305.	.06	.37
13:58-14:58	2.2 .00	.005 .022	1.20 .087	nd 20.3	- -	- 1020.7	.06 9.	nd 302.	.06	.37
14:08-15:08	2.3 .00	.005 .022	1.24 .084	nd 20.4	- -	- 1020.7	.06 9.	nd 303.	.06	.37
14:18-15:18	2.1 .00	.004 .023	1.19 .083	nd 20.5	- -	- 1020.6	.04 9.	nd 306.	.05	.36
14:28-15:28	2.2 .00	.005 .024	1.24 .083	nd 20.8	- -	- 1020.6	.06 8.	nd 307.	.06	.36
14:38-15:38	2.2 .00	.005 .023	1.25 .074	nd 20.6	- -	- 1020.5	.06 7.	nd 309.	.06	.36
14:48-15:48	2.3 .00	.005 .023	1.26 .066	nd 20.6	- -	- 1020.5	.06 6.	nd 319.	.06	.36

LONDON_84 : 047B

Statistics	CO T-abs-Hg	TRS Ozone	THC SolarRad	SO2 Temp	Non-CH4 Humidity	Methane Barom	NOx Wind-Spd	NO2 Wind-Dir	NO	Hg
Units	ppm ---	ppm ppm	ppm W/cm^2	ppm d C	ppm %-rel.	ppm mbar-msl	ppm km/h	ppm deg	ppm	ug/m^3
Arith. Mean	2.04 .000	.0048 .023	1.195 .0785	.005 19.9	- -	- 1020.7	.051 -	.005 -	.055	.348
Std. Dev.	2.12 .000	.0026 .004	.401 .0297	.000 1.0	- -	- .1	.074 -	.003 -	.076	.086
Geo. Mean	1.60 -	.0040 .023	1.147 -	.005 -	- -	- -	.021 -	.005 -	.026	.338
Geo.Std.Dev	1.84 -	1.9228 1.166	1.312 -	1.053 -	- -	- -	3.809 -	1.268 -	3.385	1.256
Min Reading	.72 .000	.0010 .013	.791 .0161	.005 18.0	- -	- 1020.3	.005 1.5	.005 .5	.005	.246
Max Reading	17.22 .000	.0135 .049	3.998 .1150	.010 21.9	- -	- 1020.9	.420 23.0	.029 359.9	.442	.725
Min Average	1.64 .000	.0042 .022	1.091 .0659	.005 19.0	- -	- 1020.5	.027 6.1	.005 301.9	.030	.321
Max Average	2.30 .000	.0053 .024	1.265 .0910	.005 20.8	- -	- 1020.8	.060 10.1	.006 318.9	.065	.370
# Valid Rdgs	183. 183.	183. 183.	183. 183.	183. 183.	0. 0.	0. 183.	183. 183.	183. 183.	183.	183.
Min.Det.Lev	.10 -	.0020 .004	.100 -	.010 -	.100 -	.100 950.0	.010 -	.010 -	.010	.050
1 hr Crit.	30.00 -	.0270 .080	- -	.250 -	- -	- -	- -	.200 -	-	-

- Invalid Data / Not Calculated
nd Average is less than Min. Detectable Level
m One or more readings Missing
Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %
Averaging Started at Nearest: .0 min

LONDON_84 : 052A

Start: 84/09/05 11:03 Scan: 60 sec
Average: 60.00 min Report: 10.00 min
Loc: #2 BALL DIAMOND AT WCW

Time	CO Temp	THC Humidity	SO2 Barom	Non-CH4 Wind-Spd	Methane Wind-Dir	NOx	NO2	NO	Ozone	SolarRad
11:03-12:03	.4 16.2	1.12 55.	nd 1006.1	nd 17.	1.05 6.	.02	.02	nd	.027	.057
11:13-12:13	.4 16.3	1.11 54.	nd 1006.1	nd 16.	1.04 8.	.02	.02	nd	.028	.060
11:23-12:23	.4 16.7	1.09 52.	nd 1006.1	nd 17.	1.03 5.	.02	.02	nd	.028	.067
11:33-12:33	.4 17.0	1.10 51.	nd 1006.1	nd 17.	1.04 8.	.02	.02	nd	.029	.075
11:43-12:43	.5 17.5	1.13 49.	nd 1006.1	nd 17.	1.06 9.	.02	.02	nd	.030	.079
11:53-12:53	.5 17.6	1.12 48.	nd 1006.0	nd 16.	1.06 9.	.02	.02	nd	.030	.076
12:03-13:03	.4 17.7	1.13 48.	nd 1006.0	nd 16.	1.07 9.	.02	.02	nd	.031	.076
12:13-13:13	.4 17.9	1.14 47.	nd 1006.0	nd 16.	1.07 8.	.02	.02	nd	.031	.075
12:23-13:23	.4 17.9	1.17 46.	nd 1005.9	nd 15.	1.08 8.	.02	.02	nd	.032	.072
12:33-13:33	.4 17.8	1.17 46.	nd 1005.9	nd 14.	1.09 3.	.02	.02	nd	.033	.063
12:43-13:43	.4 17.6	1.17 46.	nd 1005.9	nd 15.	1.09 2.	.02	.02	nd	.033	.063
12:53-13:53	.4 17.6	1.17 46.	nd 1005.8	nd 15.	1.09 3.	.02	.02	nd	.034	.062

LONDON_84 : 052A

Statistics	CO Temp	THC Humidity	SO2 Barom	Non-CH4 Wind-Spd	Methane Wind-Dir	NOx	NO2	NO	Ozone	SolarRad
Units	ppm d C	ppm %-rel	ppm mbar-msl	ppm km/h	ppm deg	ppm	ppm	ppm	ppm	W/cm^2
Arith. Mean	.43 17.2	1.137 49.4	.005 1006.0	.079 -	1.067 -	.024	.023	.005	.031	.0654
Std. Dev.	.40 1.0	.098 4.7	.000 .1	.064 -	.081 -	.004	.001	.003	.004	.0283
Geo. Mean	.35 -	1.133 -	.005 -	.065 -	1.064 -	.024	.023	.005	.030	-
Geo.Std.Dev	1.83 -	1.084 -	1.000 -	1.700 -	1.077 -	1.145	1.051	1.265	1.126	-
Min Reading	.05 15.2	.951 43.4	.005 1005.7	.050 3.3	.762 .7	.020	.020	.005	.021	.0141
Max Reading	3.53 19.1	1.484 59.6	.005 1006.2	.405 28.6	1.367 359.8	.060	.026	.036	.040	.0978
Min Average	.35 16.2	1.093 45.8	.005 1005.8	.055 14.2	1.034 2.5	.023	.022	.005	.027	.0570
Max Average	.51 17.9	1.170 54.8	.005 1006.1	.090 17.0	1.089 9.3	.025	.023	.006	.034	.0791
# Valid Rdgs	177. 177.	177. 177.	177. 177.	177. 177.	177. 177.	177.	177.	177.	177.	177.
Min.Det.Lev	.10 -	.100 -	.010 950.0	.100 -	.100 -	.010	.010	.010	.004	-
1 hr Crit.	30.00 -	- -	.250 -	- -	- -	-	.200	-	.080	-

\- Invalid Data / Not Calculated
nd Average is less than Min. Detectable Level
* One or more readings Missing
% Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %
Averaging Started at Nearest: .0 min

LONDON_84 : 052B

Start: 84/09/05 10:55 Scan: 60 sec
Average: 60.00 min Report: 10.00 min
Loc: PARKWOOD HOSPITAL(S SIDE)

Time	CO T-abs-Hg	TRS Ozone	THC SolarRad	SO2 Temp	Non-CH4 Humidity	Methane Barom	NOx Wind-Spd	NO2 Wind-Dir	NO	Hg
10:55-11:55	.2	.003	1.33	nd	.55	.93	.01	.02	nd	-
	-	.027	.077	17.3	-	1025.9	13.	19.		
11:05-12:05	.2	.003	1.35	nd	.56	.92	.01	.02	nd	-
	-	.028	.082	17.6	-	1025.9	14.	21.		
11:15-12:15	.2	.003	1.35	nd	.56	.92	.01	.02	nd	-
	-	.028	.084	17.8	-	1025.9	14.	20.		
11:25-12:25	.2	.003	1.35	nd	.57	.91	nd	.02	nd	-
	-	.029	.093	18.0	-	1025.9	14.	25.		
11:35-12:35	.2	.003	1.32	nd	.55	.91	nd	.02	nd	-
	-	.029	.098	18.4	-	1026.0	13.	26.		
11:45-12:45	.2	.003	1.26	nd	.49	.91	nd	.02	nd	-
	-	.029	.093	18.3	-	1026.0	13.	20.		
11:55-12:55	.2	.003	1.24	nd	.48	.90	.01	.02	nd	-
	-	.029	.096	18.3	-	1026.0	13.	20.		
12:05-13:05	.2	.003	1.22	nd	.47	.90	.01	.02	nd	-
	-	.029	.091	18.3	-	1026.0	12.	19.		
12:15-13:15	.2	.003	1.21	nd	.46	.90	.01	.02	nd	-
	-	.029	.091	18.3	-	1026.0	12.	18.		
12:25-13:25	.2	.003	1.20	nd	.45	.90	.01	.02	nd	-
	-	.029	.087	18.4	55.	1025.9	11.	13.		
12:35-13:35	.2	.003	1.19	nd	.45	.89	.02	.02	nd	-
	-	.029	.083	18.3	54.	1025.9	12.	13.		
12:45-13:45	.2	.003	1.21	nd	.46	.89	.01	.02	nd	-
	-	.029	.082	18.5	53.	1025.9	11.	20.		
12:55-13:55	.2	.003	1.24	nd	.48	.89	.01	.02	nd	-
	-	.029	.075	18.5	51.	1025.8	11.	22.		

LONDON_84 : 052B

Statistics	CO T-abs-Hg	TRS Ozone	THC SolarRad	SO2 Temp	Non-CH4 Humidity	Methane Barom	NOx Wind-Spd	NO2 Wind-Dir	NO	Hg
Units	ppm ---	ppm ppm	ppm W/cm^2	ppm d C	ppm %-rel	ppm mbar-msl	ppm km/h	ppm deg	ppm	ug/m^3
Arith. Mean	.19 -	.0030 .028	1.269 .0831	.006 18.1	.503 52.7	.907 1025.9	.013 -	.017 -	.005	-
Std. Dev.	.18 -	.0022 .003	.145 .0329	.002 .8	.123 3.4	.016 .1	.009 -	.004 -	.002	-
Geo. Mean	.15 -	.0023 .028	1.261 -	.006 -	.491 -	.907 -	.010 -	.017 -	.005	-
Geo.Std.Dev	1.89 -	2.1282 1.138	1.112 -	1.323 -	1.240 -	1.018 -	1.912 -	1.288 -	1.185	-
Min Reading	.05 -	.0010 .017	1.097 .0175	.005 15.9	.364 45.8	.883 1025.6	.005 .9	.005 .4	.005	-
Max Reading	1.79 -	.0102 .036	1.862 .1203	.015 19.6	1.012 60.1	.955 1026.1	.065 23.9	.037 359.6	.030	-
Min Average	.16 -	.0026 .027	1.194 .0746	.005 17.3	.447 51.4	.893 1025.8	.009 11.2	.015 13.2	.005	-
Max Average	.24 -	.0033 .029	1.352 .0976	.007 18.5	.571 54.6	.927 1026.0	.015 13.7	.018 25.7	.005	-
# Valid Rdgs	185. 0.	185. 185.	185. 185.	185. 185.	185. 86.	185. 185.	185. 185.	185. 185.	185.	0.
Min.Det.Lev	.10 -	.0020 .004	.100 -	.010 -	.100 -	.100 950.0	.010 -	.010 -	.010	.050
1 hr Crit.	30.00 -	.0270 .080	- -	.250 -	- -	- -	- -	.200 -	-	-

\- Invalid Data / Not Calculated
nd Average is less than Min. Detectable Level
m One or more readings Missing
* Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %
Averaging Started at Nearest: .0 min

LONDON_84 : 053A

Start: 84/09/05 14:42 Scan: 60 sec
Average: 60.00 min Report: 10.00 min
Loc: SUTTON FARM'S APPLE ORCHARD

Time	CO Temp	THC Humidity	SO2 Barom	Non-CH4 Wind-Spd	Methane Wind-Dir	NOx	NO2	NO	Ozone	SolarRad
14:42-15:42	.7 17.2	1.16 49.	nd 1005.7	.12 19.	1.03 3.	.04	.03	.01	.028	.063
14:52-15:52	.7 17.2	1.17 50.	nd 1005.6	.13 17.	1.03 3.	.04	.03	.01	.027	.061
15:02-16:02	.8 17.6	1.17 49.	nd 1005.6	.13 16.	1.03 359.	.04	.03	.02	.027	.065
15:12-16:12	.9 18.1	1.18 49.	nd 1005.5	.14 16.	1.03 355.	.04	.03	.02	.027	.063
15:22-16:22	1.2 18.1	1.22 49.	nd 1005.4	.17 15.	1.03 352.	.05	.03	.03	.027	.056
15:32-16:32	1.3 18.3	1.24 49.	nd 1005.3	.19 14.	1.04 346.	.06	.03	.03	.027	.052
15:42-16:42	1.4 18.7	1.26 49.	nd 1005.2	.22 14.	1.04 338.	.06	.03	.04	.027	.050
15:52-16:52	1.4 18.6	1.26 48.	nd 1005.2	.22 14.	1.04 335.	.07	.03	.04	.027	.048

LONDON_84 : 053A

Statistics	CO Temp	THC Humidity	SO2 Barom	Non-CH4 Wind-Spd	Methane Wind-Dir	NOx	NO2	NO	Ozone	SolarRad
Units	ppm d C	ppm %-rel	ppm mbar-msl	ppm km/h	ppm deg	ppm	ppm	ppm	ppm	W/cm^2
Arith. Mean	1.06 17.9	1.209 49.1	.005 1005.5	.168 -	1.034 -	.051	.027	.025	.027	.0554
Std. Dev.	.82 1.2	.151 2.4	.000 .3	.149 -	.009 -	.026	.003	.024	.002	.0218
Geo. Mean	.84 -	1.201 -	.005 -	.127 -	1.034 -	.047	.027	.017	.027	-
Geo.Std.Dev	1.94 -	1.116 -	1.000 -	2.084 -	1.009 -	1.517	1.121	2.418	1.005	-
Min Reading	.05 15.9	1.088 43.9	.005 1005.1	.050 2.9	1.013 1.1	.025	.022	.005	.020	.0123
Max Reading	4.46 21.2	1.908 53.1	.005 1005.9	.840 30.9	1.077 359.9	.162	.039	.129	.034	.0986
Min Average	.70 17.2	1.160 48.2	.005 1005.2	.120 14.0	1.031 2.8	.038	.026	.013	.027	.0475
Max Average	1.45 18.7	1.264 49.6	.005 1005.7	.222 18.8	1.038 359.4	.066	.029	.039	.028	.0645
# Valid Rdgs	130. 130.	130. 130.	130. 130.	130. 130.	130. 130.	130.	130.	130.	130.	130.
Min.Det.Lev	.10 -	.100 -	.010 950.0	.100 -	.100 -	.010	.010	.010	.004	-
1 hr Crit.	30.00 -	- -	.250 -	- -	- -	-	.200	-	.080	-

\- Invalid Data / Not Calculated
nd Average is less than Min. Detectable Level
s One or more readings Missing
f Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %
Averaging Started at Nearest: .0 min

LONDON_84 : 053B

Start: 84/09/05 14:35 Scan: 60 sec
Average: 60.00 min Report: 10.00 min
Loc: RADIO TOWER ON HWY 135

Time	CO T-abs-Hg	TRS Ozone	THC SolarRad	SO2 Temp	Non-CH4 Humidity	Methane Barom	NOx Wind-Spd	NO2 Wind-Dir	NO	Hg
14:35-15:35	nd	.004	1.20	nd	.42	..94	nd	.01	nd	-
	-	.028	.097	19.9	49.	1027.9	18.	20.		
14:45-15:45	nd	.004	1.23	nd	.44	.94	nd	.01	nd	-
	-	.029	.093	20.0	48.	1027.9	17.	17.		
14:55-15:55	nd	.004	1.25	nd	.46	.94	nd	.01	nd	-
	-	.028	.089	20.1	48.	1027.8	16.	16.		
15:05-16:05	nd	.005	1.27	nd	.48	.94	nd	.01	nd	-
	-	.028	.087	19.9	49.	1027.7	15.	13.		
15:15-16:15	nd	.005	1.29	nd	.50	.94	nd	.01	nd	-
	-	.029	.082	19.7	49.	1027.7	15.	14.		
15:25-16:25	nd	.004	1.32	nd	.53	.94	nd	.01	nd	-
	-	.028	.070	19.4	51.	1027.7	15.	11.		
15:35-16:35	nd	.005	1.36	nd	.56	.94	nd	.01	nd	-
	-	.028	.060	18.8	52.	1027.6	13.	8.		

LONDON_84 : 053B

Statistics	CO T-abs-Ho	TRS Ozone	THC SolarRad	SO2 Temp	Non-CH4 Humidity	Methane Barom	NOx Wind-Spd	NO2 Wind-Dir	NO	Ho
Units	ppm ---	ppm ppm	ppm W/cm^2	ppm d C	ppm %-rel	ppm mbar-msl	ppm km/h	ppm deg	ppm	ug/m^3
Arith. Mean	.08 -	.0042 .028	1.282 .0785	.005 19.4	.492 50.8	.938 1027.8	.006 -	.014 -	.005	-
Std. Dev.	.07 -	.0024 .002	.096 .0302	.001 1.1	.080 3.4	.005 .2	.004 -	.003 -	.001	-
Geo. Mean	.07 -	.0034 .028	1.279 -	.005 -	.486 -	.938 -	.006 -	.013 -	.005	-
Geo.Std.Dev	1.71 -	2.0812 1.092	1.077 -	1.070 -	1.176 -	1.005 -	1.442 -	1.337 -	1.124	-
Min Reading	.05 -	.0010 .020	1.132 .0134	.005 16.5	.368 45.1	.927 1027.5	.005 6.8	.005 .4	.005	-
Max Reading	.51 -	.0109 .034	1.503 .1163	.011 20.9	.674 58.2	.950 1028.1	.034 26.0	.023 358.9	.013	-
Min Average	.07 -	.0037 .028	1.201 .0600	.005 18.8	.424 48.4	.937 1027.6	.005 13.5	.013 8.1	.005	-
Max Average	.09 -	.0049 .029	1.357 .0972	.005 20.1	.556 52.2	.940 1027.9	.007 18.2	.014 19.5	.005	-
# Valid Rdgs	122. 0.	122. 122.	122. 122.	122. 122.	122. 122.	122. 122.	122. 122.	122. 122.	122.	0.
Min.Det.Lev	.10 -	.0020 .004	.100 -	.010 -	.100 -	.100 950.0	.010 -	.010 -	.010	.050
1 hr Crit.	30.00 -	.0270 .080	- -	.250 -	- -	- -	- -	.200 -	-	-

- Invalid Data / Not Calculated
nd Average is less than Min. Detectable Level
m One or more readings Missing
Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %
Averaging Started at Nearest: .0 min

LONDON_84 : 063B

Start: 84/09/06 14:59 Scan: 60 sec
Average: 60.00 min Report: 10.00 min
Loc: ST SEBASTIAN SEPARATE SCHOOL

Time	CO SolarRad	TRS Temp	THC Humidity	SO2 Barom	Non-CH4 Wind-Spd	Methane Wind-Dir	NOx	NO2	NO	Ozone
14:59-15:59	.5 .060	nd 21.1	1.04 44.	nd 1028.6	.38 6.	.73 222.	.01	.01	nd	.036
15:09-16:09	.5 .066	.002 21.6	1.03 43.	nd 1028.5	.37 6.	.72 233.	.01	.01	nd	.035
15:19-16:19	.5 .073	nd 21.9	1.01 42.	nd 1028.4	.35 6.	.72 239.	.01	.01	nd	.035
15:29-16:29	.5 .070	nd 22.2	1.02 42.	nd 1028.4	.37 6.	.71 242.	.02	.01	.01	.034
15:39-16:39	.6 .071	.003 22.4	.99 41.	nd 1028.3	.34 7.	.72 240.	.02	.01	.01	.034
15:49-16:49	.6 .071	.003 22.6	.99 42.	nd 1028.3	.33 8.	.72 233.	.02	.01	.01	.034
15:59-16:59	.5 .066	.003 22.4	1.00 43.	nd 1028.2	.33 9.	.72 229.	.01	.01	nd	.033

LONDON_84 : 063B

Statistics	CO SolarRad	TRS Temp	THC Humidity	SO2 Barom	Non-CH4 Wind-Spd	Methane Wind-Dir	NOx	NO2	NO	Ozone
Units	ppm W/cm^2	ppm d C	ppm %-rel	ppm mbar-msl	ppm km/h	ppm deg	ppm	ppm	ppm	ppm
Arith. Mean	.50 .0627	.0025 21.7	1.019 43.5	.005 1028.4	.357 -	.725 -	.013	.011	.008	.034
Std. Dev.	.44 .0255	.0021 1.1	.289 2.7	.000 .2	.266 -	.022 -	.021	.005	.020	.003
Geo. Mean	.45 -	.0019 -	.994 -	.005 -	.317 -	.725 -	.009	.010	.006	.034
Geo.Std.Dev	1.47 -	2.1288 -	1.221 -	1.000 -	1.517 -	1.030 -	2.014	1.636	1.660	1.097
Min Reading	.30 .0214	.0010 19.6	.788 37.3	.005 1028.0	.164 2.0	.698 174.0	.005	.005	.005	.027
Max Reading	4.29 .1050	.0083 24.4	3.063 49.3	.005 1028.8	2.274 16.2	.822 307.6	.208	.032	.212	.041
Min Average	.50 .0596	.0018 21.1	.987 41.5	.005 1028.2	.329 5.9	.713 222.5	.013	.011	.007	.033
Max Average	.56 .0725	.0032 22.6	1.041 44.1	.005 1028.6	.379 8.9	.725 242.4	.016	.012	.011	.036
# Valid Rdgs	122. 122.	122. 122.	122. 122.	122. 122.	122. 122.	122. 122.	122.	122.	122.	122.
Min.Det.Lev	.10 -	.0020 -	.100 -	.010 950.0	.100 -	.100 -	.010	.010	.010	.004
1 hr Crit.	30.00 -	.0270 -	- -	.250 -	- -	- -	-	.200	-	.080

- Invalid Data / Not Calculated
nd Average is less than Min. Detectable Level
m One or more readings Missing
* Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %
Averaging Started at Nearest: .0 min

LONDON_84 : 064A

Start: 84/09/06 15:13 Scan: 60 sec
Average: 60.00 min Report: 10.00 min
Loc: SCHOOL @ CHESTERFIELD & THOMPSON

Time	CO Temp	THC Humidity	SO2 Barom	Non-CH4 Wind-Spd	Methane Wind-Dir	NOx	NO2	NO	Ozone	SolarRad
15:13-16:13	1.3 21.7	1.16 40.	nd 1009.7	.23 4.	.93 221.	.02	.01	.01	.029	.057
15:23-16:23	1.8 22.1	1.18 39.	nd 1009.5	.25 4.	.92 224.	.02	.01	.01	.028	.055

LONDON_84 : 0644 Page: 0002

Statistics	CO Temp	THC Humidity	SO2 Sarom	Non-CH4 Wind-Spd	Methane Wind-Dir	NOx	NO2	NO	Ozone	SolarRad
Units	ppm d C	ppm %-rel	ppm mbar-msl	ppm km/h	ppm deg	ppm	ppm	ppm	ppm	W/cm^2
Arith. Mean	1.55 21.7	1.174 40.0	.009 1009.5	.244 -	.925 -	.027	.013	.014	.028	.0499
Std. Dev.	1.80 1.5	.180 2.9	.004 .5	.179 -	.014 -	.020	.007	.013	.005	.0255
Geo. Mean	.92 -	1.163 -	.008 -	.206 -	.925 -	.019	.011	.010	.028	-
Geo.Std.Dev	2.86 -	1.138 -	1.626 -	1.761 -	1.015 -	2.375	1.862	2.263	1.205	-
Min Reading	.05 19.1	1.003 35.4	.005 1008.8	.050 .0	.906 43.8	.005	.005	.005	.015	.0146
Max Reading	9.84 24.0	2.216 46.3	.016 1010.2	1.319 17.9	.970 317.0	.076	.027	.051	.036	.0827
Min Average	1.29 21.7	1.162 39.3	.008 1009.5	.231 3.5	.923 221.0	.023	.012	.012	.028	.0550
Max Average	1.77 22.1	1.180 40.1	.010 1009.7	.252 3.6	.926 223.6	.024	.013	.012	.029	.0567
# Valid Rdgs	76. 76.	76. 76.	76. 76.	76. 76.	76. 76.	76.	76.	76.	76.	76.
Min.Det.Lev	.10 -	.100 -	.010 950.0	.100 -	.100 -	.010	.010	.010	.004	-
1 hr Crit.	30.00 -	- -	.250 -	- -	- -	-	.200	-	.080	-

- Invalid Data / Not Calculated
nd Average is less than Min. Detectable Level
m One or more readings Missing
Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %
Averaging Started at Nearest: .0 min

LONDON_84 : 071B

Start: 84/09/07 10:35 Scan: 60 sec
Average: 60.00 min Report: 10.00 min
Loc: ROWNTREE PARK 1 KM NW EFW

Time	CO	TRS	THC	SO2	Non-CH4	Methane	NOx	NO2	NO	Ozone
	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir				
10:35-11:35	.6	.003	1.27	.04	.43	.91	.04	.03	nd	.024
	.066	21.7	56.	1031.6	16.	179.				
10:45-11:45	.6	.002	1.25	.04	.43	.91	.05	.03	.01	.023
	.063	21.7	55.	1031.6	15.	181.				

LONDON_B4 : 071B

Statistics	CO SolarRad	TRS Temp	THC Humidity	SO2 Barom	Non-CH4 Wind-Spd	Methane Wind-Dir	NOx	NO2	NO	Ozone
Units	ppm W/cm^2	ppm d C	ppm %-rel	ppm mbar-msl	ppm km/h	ppm deg	ppm	ppm	ppm	ppm
Arith. Mean	.62 .0620	.0030 21.6	1.264 55.9	.042 1031.6	.430 -	.910 -	.046	.034	.011	.023
Std. Dev.	.13 .0116	.0023 .3	.058 1.9	.009 .1	.037 -	.014 -	.010	.005	.006	.003
Geo. Mean	.62 -	.0022 -	1.262 -	.041 -	.429 -	.910 -	.045	.034	.009	.023
Geo.Std.Dev	1.15 -	2.1907 -	1.044 -	1.269 -	1.086 -	1.015 -	1.234	1.170	1.814	1.158
Min Reading	.50 .0422	.0010 21.1	1.186 53.3	.017 1031.2	.368 8.3	.897 159.2	.032	.026	.005	.017
Max Reading	1.61 .0858	.0086 22.4	1.631 61.0	.068 1031.8	.595 23.4	.995 211.6	.071	.048	.023	.029
Min Average	.62 .0635	.0025 21.7	1.254 55.5	.040 1031.6	.426 15.3	.906 179.0	.044	.033	.010	.023
Max Average	.63 .0660	.0030 21.7	1.265 56.3	.043 1031.6	.434 15.7	.909 181.1	.046	.034	.011	.024
# Valid Rdgs	75. 75.	75. 75.	75. 75.	75. 75.	75. 75.	75. 75.	75.	75.	75.	75.
Min.Det.Lev	.10 -	.0020 -	.100 -	.010 950.0	.100 -	.100 -	.010	.010	.010	.004
1 hr Crit.	30.00 -	.0270 -	- -	.250 -	- -	- -	-	.200	-	.080

- Invalid Data / Not Calculated
nd Average is less than Min. Detectable Level
m One or more readings Missing
Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %
Averaging Started at Nearest: .0 min

LONDON_84 : 072A

Start: 84/09/07 10:41 Scan: 60 sec
Average: 60.00 min Report: 10.00 min
Loc: G.A. WHEABLE S. SCHOOL N THOMPSON

Time	CO	THC	SO2	Non-CH4	Methane	NOx	NO2	NO	Ozone	SolarRad
	Temp	Humidity	Barom	Wind-Spd	Wind-Dir					
10:41-11:41	.4	1.38	.04	.24	1.16	.02	nd	nd	.016	.059
	22.0	50.	1010.7	19.	196.					
10:51-11:51	.4	1.37	.04	.17	1.23	.02	nd	nd	.014	.055
	22.0	49.	1010.6	20.	197.					
11:01-12:01	.4	1.37	.04	.12	1.29	.02	nd	nd	.014	.053
	21.8	49.	1010.4	20.	198.					
11:11-12:11	.4	1.37	.04	.11	1.29	.02	nd	nd	.014	.049
	21.6	49.	1010.3	20.	198.					
11:21-12:21	.4	1.38	.04	.16	1.24	.02	nd	nd	.014	.046
	21.3	49.	1010.1	21.	199.					
11:31-12:31	.4	1.39	.04	.21	1.19	.02	nd	nd	.014	.045
	21.1	49.	1010.0	21.	198.					

LONDON 84 : 072A

Statistics	CO Temp	THC Humidity	SO2 Barom	Non-CH4 Wind-Spd	Methane Wind-Dir	NOx	NO2	NO	Ozone	SolarRad
Units	ppm d C	ppm %-rel	ppm mbar-msl	ppm km/h	ppm deg	ppm	ppm	ppm	ppm	W/cm^2
Arith. Mean	.41 21.6	1.388 49.3	.039 1010.3	.252 -	1.156 -	.019	.007	.008	.015	.0532
Std. Dev.	.13 .6	.038 1.1	.008 .5	.180 -	.177 -	.005	.004	.004	.004	.0110
Geo. Mean	.39 -	1.388 -	.038 -	.166 -	1.143 -	.018	.007	.007	.015	-
Geo.Std.Dev	1.38 -	1.028 -	1.265 -	2.787 -	1.166 -	1.352	1.541	1.549	1.319	-
Min Reading	.10 20.8	1.325 48.1	.015 1009.1	.050 8.4	.920 162.4	.005	.005	.005	.008	.0363
Max Reading	1.03 22.9	1.537 53.0	.053 1011.2	.575 33.8	1.388 245.7	.031	.015	.018	.028	.0761
Min Average	.39 21.1	1.369 48.8	.037 1010.0	.113 19.2	1.162 196.5	.019	.008	.008	.014	.0451
Max Average	.44 22.0	1.387 49.6	.043 1010.7	.244 21.0	1.289 199.4	.021	.009	.009	.016	.0593
# Valid Rdgs	118. 118.	118. 118.	118. 118.	118. 118.	118. 118.	118.	118.	118.	118.	118.
Min.Det.Lev	.10 -	.100 -	.010 950.0	.100 -	.100 -	.010	.010	.010	.004	-
1 hr Crit.	30.00 -	- -	.250 -	- -	- -	-	.200	-	.080	-

- Invalid Data / Not Calculated
nd Average is less than Min. Detectable Level
m One or more readings Missing
Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %
Averaging Started at Nearest: .0 min

LONDON_84 : 271A

Start: 84/08/27 16:41 Scan: 60 sec
Average: 60.00 min Report: 10.00 min
Loc: C.C. CARROTHERS SCHOOL @ Chippendale & King Edward

Time	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
16:41-17:41	.034	25.0	55.	1065.5	31.	222.
16:51-17:51	.035	25.1	55.	1065.4	32.	223.

LONDON 94 : 271A

Statistics	SolarRad	Temp	Humidity	Barom	Wind-Spd	Wind-Dir
Units	W/cm^2	d C	%-rel	mbar-msl	km/h	deg
Arith. Mean	.0325	25.1	54.8	1065.5	-	-
Std. Dev.	.0105	.4	1.6	.2	-	-
Min Reading	.0157	24.3	52.3	1065.2	18.0	194.4
Max Reading	.0564	25.8	57.1	1065.9	47.4	242.2
Min Average	.0342	25.0	54.7	1065.4	31.1	222.3
Max Average	.0349	25.1	55.3	1065.5	31.8	223.3
# Valid Rdgs	77.	77.	77.	77.	77.	77.
Min.Det.Lev	-	-	-	950.0	-	-

- \- Invalid Data / Not Calculated
- nd Average is less than Min. Detectable Level
- m One or more readings Missing
- * Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %
Averaging Started at Nearest: .0 min

LONDON 84 : 271B

Start: 84/08/27 16:49 Scan: 60 sec
Average: 60.00 min Report: 10.00 min
Loc: PARKWOOD HOSP - S SIDE

Time	CO Barom	TRS Wind-Spd	THC Wind-Dir	SO2	Non-CH4	Methane	Ozone	SolarRad	Temp	Humidity
16:49-17:49	.7 1015.8	.002 21.	1.23 198.	nd	.37	1.10	.069	.041	27.5	58.

LONDON_84 : 271B

Statistics	CO Barom	TRS Wind-Spd	THC Wind-Dir	SO2	Non-CH4	Methane	Ozone	SolarRad	Temp	Humidity
Units	ppm mbar-msl	ppm km/h	ppm deg	ppm	ppm	ppm	ppm	W/cm^2	d C	%-rel
Arith. Mean	.76 1015.8	.0021 -	1.229 -	.007	.364	1.103	.069	.0412	27.5	57.8
Std. Dev.	.16 .1	.0023 -	.154 -	.003	.122	.014	.003	.0122	.7	2.5
Geo. Mean	.75 -	.0015 -	1.219 -	.007	.343	1.103	.069	-	-	-
Geo.Std.Dev	1.17 -	2.1100 -	1.133 -	1.494	1.411	1.013	1.051	-	-	-
Min Reading	.58 1015.6	.0010 10.9	1.018 178.1	.005	.198	1.074	.060	.0228	26.0	53.9
Max Reading	1.83 1015.9	.0109 28.3	1.566 223.6	.012	.642	1.124	.075	.0627	28.7	63.3
Min Average	.74 1015.8	.0021 20.6	1.232 197.8	.007	.366	1.104	.069	.0413	27.5	57.9
Max Average	.74 1015.8	.0021 20.6	1.232 197.8	.007	.366	1.104	.069	.0413	27.5	57.9
# Valid Rdgs	61. 61.	61. 61.	61. 61.	61.	61.	61.	61.	61.	61.	61.
Min.Det.Lev	.10 950.0	.0020 -	.100 -	.010	.100	.100	.004	-	-	-
1 hr Crit.	30.00 -	.0270 -	- -	.250	-	-	.080	-	-	-

- Invalid Data / Not Calculated
nd Average is less than Min. Detectable Level
m One or more readings Missing
* Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %
Averaging Started at Nearest: .0 min

LONDON_84 : 281A

Start: 84/08/28 14:47 Scan: 60 sec
Average: 60.00 min Report: 10.00 min
Loc: BOYS' CLUB @ ADELAIDE & SOUTHDALE

Time	THC Barom	SO2 Wind-Spd	Non-CH4 Wind-Dir	Methane	NOx	NO2	NO	SolarRad	Temp	Humidity
14:47-15:47	1.76 1072.1	nd 12.	.51 216.	1.29	nd	nd	nd	.027	27.1	63.
14:57-15:57	1.77 1072.0	nd 12.	.52 216.	1.28	nd	nd	nd	.017	26.4	65.
15:07-16:07	1.75 1071.9	nd 12.	.49 216.	1.29	nd	nd	nd	.015	25.9	66.
15:17-16:17	1.73 1071.9	nd 12.	.47 214.	1.29	.01	nd	nd	.012	25.5	67.
15:27-16:27	1.71 1071.7	nd 12.	.45 211.	1.30	.01	nd	nd	.008	25.1	68.
15:37-16:37	1.70 1071.5	nd 11.	.43 208.	1.30	.01	.01	nd	.007	24.7	69.
15:47-16:47	1.70 1071.3	nd 11.	.41 203.	1.32	.02	.01	nd	.006	24.4	70.

LONDON_84 : 281A

Statistics	THC Barom	SO2 Wind-Spd	Non-CH4 Wind-Dir	Methane	NOx	NO2	NO	SolarRad	Temp	Humidity
Units	ppm mbar-msl	ppm km/h	ppm deg	ppm	ppm	ppm	ppm	W/cm^2	d C	%-rel
Arith. Mean	1.728 1071.7	.005 -	.459 -	1.305	.011	.008	.005	.0162	25.7	67.0
Std. Dev.	.073 .5	.000 -	.085 -	.034	.007	.005	.000	.0173	1.7	4.3
Geo. Mean	1.726 -	.005 -	.451 -	1.304	.009	.007	.005	-	-	-
Geo.Std.Dev	1.043 -	1.000 -	1.204 -	1.026	1.849	1.662	1.000	-	-	-
Min Reading	1.603 1070.7	.005 4.3	.309 176.5	1.272	.005	.005	.005	.0055	23.3	58.0
Max Reading	1.904 1072.4	.005 23.6	.644 247.8	1.430	.030	.023	.005	.0747	29.5	75.9
Min Average	1.695 1071.3	.005 11.1	.411 203.1	1.285	.006	.005	.005	.0061	24.4	63.4
Max Average	1.768 1072.1	.005 12.5	.515 216.5	1.322	.016	.011	.005	.0265	27.1	70.4
# Valid Rdgs	121. 121.	121. 121.	121. 121.	121.	121.	121.	121.	121.	121.	121.
Min.Det.Lev	.100 950.0	.010 -	.100 -	.100	.010	.010	.010	-	-	-
1 hr Crit.	- -	.250 -	- -	-	-	.200	-	-	-	-

- Invalid Data / Not Calculated
nd Average is less than Min. Detectable Level
m One or more readings Missing
* Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %
Averaging Started at Nearest: .0 min

LONDON_84 : 2838

Start: 84/08/28 15:10 Scan: 60 sec
Average: 60.00 min Report: 10.00 min
Loc: G A WHEABLE SECONDARY SCHOOL

Time	CO SolarRad	TRS Temp	THC Humidity	SO2 Barom	Non-CH4 Wind-Spd	Methane Wind-Dir	NOx	NO2	NO	Ozone
15:10-16:10	1.2 .016	.009 27.3	2.45 73.	.02 1014.0	1.57 6.	.84 192.	.03	.01	.02	.053
15:20-16:20	1.1 .013	.009 26.9	2.30 74.	.02 1014.1	1.44 6.	.84 188.	.03	.02	.02	.051
15:30-16:30	1.1 .011	.008 26.6	2.20 75.	.01 1014.1	1.35 6.	.83 187.	.03	.02	.02	.050
15:40-16:40	1.0 .010	.008 26.2	2.13 76.	.01 1014.1	1.29 7.	.83 183.	.03	.02	.01	.048
15:50-16:50	.9 .010	.007 25.9	2.08 77.	.01 1014.2	1.25 7.	.82 180.	.03	.02	.01	.047
16:00-17:00	.9 .010	.007 25.5	1.98 78.	.01 1014.2	1.18 7.	.82 174.	.03	.02	.01	.047

LONDON_84 : 2838 Page: 0002

Statistics	CO SolarRad	TRS Temp	THC Humidity	SO2 Barom	Non-CH4 Wind-Spd	Methane Wind-Dir	NOx	NO2	NO	Ozone
Units	ppm W/cm^2	ppm d C	ppm %-rel	ppm mbar-msl	ppm km/h	ppm deg	ppm	ppm	ppm	ppm
Arith. Mean	1.05 .0130	.0080 26.3	2.214 75.7	.016 1014.1	1.368 -	.829 -	.030	.017	.015	.051
Std. Dev.	.68 .0063	.0029 1.1	.575 3.8	.024 .1	.516 -	.017 -	.014	.009	.011	.006
Geo. Mean	.94 -	.0074 -	2.151 -	.011 -	1.291 -	.829 -	.027	.014	.013	.050
Geo.Std.Dev	1.50 -	1.5568 -	1.261 -	2.339 -	1.388 -	1.021 -	1.548	1.864	1.729	1.125
Min Reading	.59 .0071	.0010 24.4	1.571 69.0	.005 1013.9	.801 1.8	.803 149.0	.005	.005	.005	.038
Max Reading	4.45 .0361	.0158 28.2	4.199 84.1	.242 1014.3	3.338 15.5	.889 250.7	.112	.046	.097	.061
Min Average	.88 .0095	.0068 25.5	1.982 72.7	.010 1014.0	1.177 5.7	.816 174.3	.029	.014	.013	.047
Max Average	1.21 .0163	.0093 27.3	2.448 78.2	.021 1014.2	1.567 7.4	.837 191.8	.031	.020	.017	.053
# Valid Rdgs	115. 115.	115. 115.	115. 115.	115. 115.	115. 115.	115. 115.	115.	115.	115.	115.
Min.Det.Lev	.10 -	.0020 -	.100 -	.010 950.0	.100 -	.100 -	.010	.010	.010	.004
1 hr Crit.	30.00 -	.0270 -	- -	.250 -	- -	- -	-	.200	-	.080

- Invalid Data / Not Calculated
nd Average is less than Min. Detectable Level
m One or more readings Missing
Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %
Averaging Started at Nearest: .0 min

LONDON_84 : 302A

Start: 84/08/30 14:51 Scan: 60 sec
Average: 60.00 min Report: 10.00 min
Loc: APT BLDG @ CRNR COMMISSIONERS & POND MILLS

Time	CO Humidity	THC Barom	SO2 Wind-Spd	Non-CH4 Wind-Dir	Methane	NOx	NO2	NO	SolarRad	Temp
14:51-15:51	.9 68.	1.44 1076.1	.03 17.	.25 289.	1.20	nd	nd	nd	-	25.1
15:01-16:01	1.3 66.	1.43 1076.0	.03 15.	.25 293.	1.19	nd	nd	nd	-	25.4
15:11-16:11	1.5 65.	1.39 1075.6	.03 14.	.22 296.	1.18	.01	nd	.01	-	25.6
15:21-16:21	1.6 64.	1.36 1075.5	.03 13.	.19 301.	1.17	.01	nd	.01	.057	25.9
15:31-16:31	1.9 64.	1.36 1075.3	.03 11.	.19 307.	1.17	.02	nd	.02	.054	25.9
15:41-16:41	2.0 63.	1.34 1075.2	.03 11.	.18 308.	1.17	.02	nd	.02	.056	26.0
15:51-16:51	1.9 63.	1.31 1075.1	.03 12.	.15 306.	1.17	.02	nd	.02	.053	26.0
16:01-17:01	1.9 63.	1.31 1075.0	.03 12.	.15 306.	1.17	.02	nd	.02	.050	25.8
16:11-17:11	2.0 63.	1.33 1075.2	.03 11.	.16 307.	1.17	.01	nd	.01	.048	25.7
16:21-17:21	2.0 63.	1.33 1075.1	.03 10.	.17 309.	1.17	.01	nd	.01	.048	25.7
16:31-17:31	1.7 62.	1.30 1075.0	.03 11.	.14 303.	1.17	.01	nd	.01	.048	25.8
16:41-17:41	1.6 61.	1.30 1074.9	.03 11.	.13 303.	1.18	.01	nd	.01	.044	25.8
16:51-17:51	1.7 61.	1.33 1074.8	.03 10.	.16 307.	1.18	.01	nd	.01	.041	25.8
17:01-18:01	1.5 60.	1.30 1074.8	.02 10.	.12 307.	1.18	nd	nd	nd	.037	25.7
17:11-18:11	1.3 60.	1.28 1074.7	.02 11.	.10 306.	1.17	nd	nd	nd	.034	25.4
17:21-18:21	1.4 60.	1.30 1074.7	.02 11.	.12 309.	1.17	nd	nd	nd	.031	25.1

LONDON_84 : 302A

Time	CO Humidity	THC Barom	SO2 Wind-Spd	Non-CH4 Wind-Dir	Methane	NOx	NO2	NO	SolarRad	Temp
17:31-18:31	1.5 61.	1.31 1074.7	.02 10.	.14 320.	1.18	nd	nd	nd	.027	24.7
17:41-18:41	1.6 61.	1.35 1074.7	.02 10.	.18 323.	1.18	nd	nd	nd	.024	24.3
17:51-18:51	1.5 62.	1.34 1074.7	.02 10.	.16 325.	1.18	nd	nd	nd	.020	23.8

LONDON_84 : 302A

Statistics	CO Humidity	THC Barom	SO2 Wind-Spd	Non-CH4 Wind-Dir	Methane	NOx	NO2	NO	SolarRad	Temp
Units	ppm %-rel	ppm mbar-msl	ppm km/h	ppm deg	ppm	ppm	ppm	ppm	W/cm^2	d C
Arith. Mean	1.52 63.5	1.355 1075.2	.026 -	.179 -	1.181	.010	.005	.010	.0394	25.1
Std. Dev.	1.31 3.1	.161 .8	.002 -	.148 -	.021	.013	.001	.012	.0184	1.1
Geo. Mean	1.23 -	1.346 -	.025 -	.131 -	1.181	.007	.005	.007	-	-
Geo.Std.Dev	1.80 -	1.117 -	1.097 -	2.221 -	1.018	2.005	1.082	2.001	-	-
Min Reading	.58 58.2	1.147 1071.1	.020 1.2	.050 .5	1.146	.005	.005	.005	.0049	22.3
Max Reading	8.71 71.1	2.092 1076.6	.031 34.3	.908 359.4	1.271	.096	.014	.086	.0832	26.8
Min Average	.95 59.9	1.275 1074.7	.023 9.6	.102 288.9	1.168	.006	.005	.006	.0201	23.8
Max Average	1.99 67.6	1.439 1076.1	.028 16.7	.253 324.6	1.198	.016	.005	.016	.0575	26.0
# Valid Rdgs	245. 245.	245. 245.	245. 245.	245. 245.	245.	245.	245.	245.	205.	245.
Min.Det.Lev	.10 -	.100 950.0	.010 -	.100 -	.100	.010	.010	.010	-	-
1 hr Crit.	30.00 -	- -	.250 -	- -	-	-	.200	-	-	-

\- Invalid Data / Not Calculated
nd Average is less than Min. Detectable Level
n One or more readings Missing
\# Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %
Averaging Started at Nearest: .0 min

LONDON_84 : 303B

Start: 84/08/30 16:56 Scan: 60 sec
Average: 60.00 min Report: 10.00 min
Loc: GLEN CAIRN PUBLIC SCHOOL

Time	CO T-abs-Hg	TRS Ozone	THC SolarRad	SO2 Temp	Non-CH4 Humidity	Methane Barom	NOx Wind-Spd	NO2 Wind-Dir	NO	Hg
16:56-17:56	.5 .07	.007 .045	1.25 .050	nd 25.1	.42 72.	1.17 1009.6	nd 14.	nd 313.	nd	nd
17:06-18:06	.5 .06	.007 .044	1.23 .046	nd 25.1	.40 71.	1.17 1009.7	nd 14.	nd 313.	nd	nd
17:16-18:16	.5 .05	.006 .044	1.20 .042	nd 24.9	.38 71.	1.16 1009.7	nd 14.	nd 312.	nd	nd
17:26-18:26	.5 .05	.006 .043	1.18 .038	nd 24.7	.37 71.	1.16 1009.8	nd 15.	nd 312.	nd	nd
17:36-18:36	.5 .06	.005 .041	1.15 .034	nd 24.5	.34 71.	1.16 1009.9	nd 15.	nd 315.	nd	nd
17:46-18:46	.5 .08	.005 .041	1.13 .030	nd 24.3	.33 71.	1.16 1010.1	nd 16.	nd 315.	nd	nd
17:56-18:56	.5 .10	.004 .041	1.10 .027	nd 24.1	.31 72.	1.16 1010.2	nd 17.	nd 316.	nd	nd

LONDON_84 : 303B

Statistics	CO T-abs-Ho	TRS Ozone	THC SolarRad	SO2 Temp	Non-CH4 Humidity	Methane Barom	NOx Wind-Spd	NO2 Wind-Dir	NO	Hg
Units	ppm ---	ppm ppm	ppm W/cm^2	ppm d C	ppm %-rel	ppm mbar-msl	ppm km/h	ppm deg	ppm	ug/m^3
Arith. Mean	.52 .089	.0055 .043	1.173 .0381	.006 24.6	.360 71.9	1.165 1009.9	.007 -	.005 -	.009	.015
Std. Dev.	.10 .057	.0032 .004	.096 .0135	.002 .7	.074 2.1	.011 .4	.004 -	.000 -	.004	.023
Geo. Mean	.52 -	.0044 .043	1.169 -	.006 -	.352 -	1.165 -	.006 -	.005 -	.008	.011
Geo.Std.Dev	1.17 -	2.1055 1.088	1.086 -	1.352 -	1.250 -	1.009 -	1.524 -	1.000 -	1.555	1.657
Min Reading	.39 .000	.0010 .035	.969 .0159	.005 23.2	.202 68.0	1.143 1009.4	.005 6.9	.005 285.2	.005	.010
Max Reading	1.21 .199	.0192 .051	1.430 .0597	.016 25.7	.563 78.6	1.194 1010.6	.025 26.6	.005 342.5	.021	.181
Min Average	.52 .053	.0041 .041	1.105 .0269	.006 24.1	.307 70.6	1.161 1009.6	.006 13.7	.005 311.7	.008	.013
Max Average	.54 .101	.0070 .045	1.247 .0499	.006 25.1	.417 71.9	1.169 1010.2	.008 16.8	.005 315.7	.009	.017
# Valid Rdgs	122. 122.	122. 122.	122. 122.	122. 122.	122. 122.	122. 122.	122. 122.	122. 122.	122.	122.
Min.Det.Lev	.10 -	.0020 .004	.100 -	.010 -	.100 -	.100 950.0	.010 -	.010 -	.010	.050
1 hr Crit.	30.00 -	.0270 .080	- -	.250 -	- -	- -	- -	.200 -	-	-

\- Invalid Data / Not Calculated
nd Average is less than Min. Detectable Level
m One or more readings Missing
* Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %
Averaging Started at Nearest: .0 min

LONDON_84 : 312A

Start: 84/08/31 11:29 Scan: 60 sec
Average: 60.00 min Report: 10.00 min
Loc: NEW PKNG LOT OF NEW VIC HOSPITAL

Time	CO Humidity	THC Barom	SO2 Wind-Spd	Non-CH4 Wind-Dir	Methane	NOx	NO2	NO	SolarRad	Temp
11:29-12:29	.8 46.	1.29 1015.6	.01 29.	nd 306.	1.25	nd	nd	nd	.071	23.2
11:39-12:39	.9 46.	1.27 1015.6	.01 29.	nd 305.	1.24	nd	nd	nd	.070	23.0
11:49-12:49	.8 45.	1.26 1015.5	.01 30.	nd 303.	1.24	nd	nd	nd	.072	23.0
11:59-12:59	.9 45.	1.26 1015.4	.01 31.	nd 301.	1.24	nd	nd	nd	.072	22.9
12:09-13:09	1.0 45.	1.26 1015.3	.01 32.	nd 301.	1.23	.01	nd	nd	.074	23.0
12:19-13:19	.8 44.	1.25 1015.3	.01 32.	nd 304.	1.23	.01	nd	nd	.072	23.1
12:29-13:29	.8 44.	1.25 1015.2	nd 33.	.11 301.	1.19	.01	nd	nd	.079	23.3

LONDON_84 : 312A

Statistics	CO Humidity	THC Barom	SO2 Wind-Spd	Non-CH4 Wind-Dir	Methane	NOx	NO2	NO	SolarRad	Temp
Units	ppm %-rel	ppm mbar-msl	ppm km/h	ppm deg	ppm	ppm	ppm	ppm	W/cm^2	d C
Arith. Mean	.83 45.1	1.267 1015.4	.010 -	.099 -	1.217	.010	.007	.005	.0750	23.2
Std. Dev.	.55 2.0	.050 .2	.004 -	.080 -	.085	.004	.003	.000	.0183	.4
Geo. Mean	.74 -	1.266 -	.009 -	.079 -	1.214	.009	.007	.005	-	-
Geo.Std.Dev	1.57 -	1.040 -	1.609 -	1.869 -	1.078	1.623	1.473	1.000	-	-
Min Reading	.11 41.7	1.188 1015.0	.005 7.7	.050 270.3	.970	.005	.005	.005	.0194	22.1
Max Reading	3.78 50.9	1.423 1015.8	.018 52.1	.366 329.6	1.412	.023	.014	.005	.1021	24.1
Min Average	.82 43.8	1.247 1015.2	.010 28.6	.067 300.7	1.187	.006	.005	.005	.0701	22.9
Max Average	.97 46.4	1.285 1015.6	.013 32.6	.110 305.7	1.252	.013	.009	.005	.0787	23.3
# Valid Rdgs	121. 121.	121. 121.	121. 121.	121. 121.	121.	121.	121.	121.	121.	121.
Min.Det.Lev	.10 -	.100 950.0	.010 -	.100 -	.100	.010	.010	.010	-	-
1 hr Crit.	30.00 -	- -	.250 -	- -	-	-	.200	-	-	-

\- Invalid Data / Not Calculated
nd Average is less than Min. Detectable Level
m One or more readings Missing
* Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %
Averaging Started at Nearest: .0 min

LONDON_84 : 312B

Start: 84/08/31 10:11 Scan: 60 sec
Average: 60.00 min Report: 10.00 min
Loc: WESTMINSTER APARTMENTS

Time	CO T-abs-Hg	TRS Ozone	THC SolarRad	SO2 Temp	Non-CH4 Humidity	Methane Barom	NOx Wind-Spd	NO2 Wind-Dir	NO	Hg
10:11-11:11	1.0 .00	.007 .026	1.31 .072	nd 23.3	.47 65.	1.11 1018.8	.02 7.	nd 318.	.01	nd
10:21-11:21	1.0 .00	.007 .027	1.31 .075	nd 23.8	.47 61.	1.10 1018.8	.02 7.	nd 327.	.01	nd
10:31-11:31	.9 .00	.007 .027	1.30 .080	nd 24.1	.47 58.	1.10 1018.8	.02 7.	nd 335.	.01	.05
10:41-11:41	.9 .00	.008 .027	1.30 .080	nd 24.4	.47 57.	1.09 1018.8	.02 7.	nd 331.	.01	.07
10:51-11:51	.9 .00	.008 .028	1.30 .082	nd 24.4	.47 55.	1.09 1018.8	.02 7.	nd 324.	.01	.09
11:01-12:01	1.2 .00	.007 .028	1.30 .085	nd 24.6	.48 53.	1.08 1018.8	.02 8.	nd 323.	nd	.10

LONDON_84 : 312B

Statistics	CO T-abs-Hc	TRS Ozone	THC SolarRad	SO2 Temp	Non-CH4 Humidity	Methane Barom	NOx Wind-Spd	NO2 Wind-Dir	NO	Hg
Units	ppm ---	ppm ppm	ppm W/cm^2	ppm d C	ppm %-rel	ppm mbar-msl	ppm km/h	ppm deg	ppm	ug/m^3
Arith. Mean	1.14 .000	.0073 .027	1.317 .0795	.005 24.1	.486 58.3	1.094 1018.8	.018 -	.007 -	.012	.063
Std. Dev.	1.71 .000	.0028 .003	.148 .0133	.000 1.2	.119 9.2	.021 .1	.019 -	.003 -	.018	.054
Geo. Mean	.88 -	.0066 .027	1.310 -	.005 -	.475 -	1.094 -	.012 -	.006 -	.007	.038
Geo.Std.Dev	1.77 -	1.6610 1.100	1.107 -	1.000 -	1.234 -	1.019 -	2.228 -	1.468 -	2.215	3.031
Min Reading	.50 .000	.0010 .021	1.117 .0258	.005 21.3	.317 43.8	1.058 1018.7	.005 1.6	.005 1.4	.005	.010
Max Reading	17.71 .000	.0145 .034	2.103 .0984	.005 26.6	1.099 79.7	1.152 1019.1	.120 23.2	.022 356.2	.118	.221
Min Average	.89 .000	.0068 .026	1.297 .0719	.005 23.3	.469 53.2	1.082 1018.8	.016 6.7	.006 318.4	.010	.023
Max Average	1.16 .000	.0077 .028	1.312 .0846	.005 24.6	.477 65.4	1.109 1018.8	.019 8.0	.007 335.2	.013	.099
# Valid Rdgs	119. 119.	119. 119.	119. 119.	119. 119.	119. 119.	119. 119.	119. 119.	119. 119.	119.	119.
Min.Det.Lev	.10 -	.0020 .004	.100 -	.010 -	.100 -	.100 950.0	.010 -	.010 -	.010	.050
1 hr Crit.	30.00 -	.0270 .080	- -	.250 -	- -	- -	- -	.200 -	-	-

- Invalid Data / Not Calculated
nd Average is less than Min. Detectable Level
m One or more readings Missing
* Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %
Averaging Started at Nearest: .0 min

LONDON_84 : 313A

Start: 84/08/31 13:57 Scan: 60 sec
Average: 60.00 min Report: 10.00 min
Loc: #7 LUPUS PLACE (48315-475530)

Time	CO Humidity	THC Barom	SO2 Wind-Spd	Non-CH4 Wind-Dir	Methane	NOx	NO2	NO	SolarRad	Temp
13:57-14:57	.7 48.	1.54 1013.1	nd 25.	.45 297.	1.12	.01	nd	nd	.072	22.8
14:07-15:07	.7 48.	1.55 1013.1	nd 25.	.45 298.	1.13	.01	nd	nd	.072	23.0
14:17-15:17	.7 48.	1.56 1013.0	nd 25.	.45 298.	1.14	.01	nd	nd	.067	22.9
14:27-15:27	.8 48.	1.60 1013.0	nd 25.	.46 301.	1.17	.01	nd	nd	.060	22.7
14:37-15:37	.8 48.	1.63 1012.9	nd 24.	.47 303.	1.19	.01	nd	nd	.061	22.7
14:47-15:47	.8 48.	1.66 1012.9	nd 25.	.48 304.	1.21	.01	nd	nd	.059	22.7
14:57-15:57	.8 48.	1.66 1012.9	nd 26.	.47 302.	1.22	.01	nd	nd	.057	22.7

LONDON 84 : 313A

Statistics	CO Humidity	THC Barom	SO2 Wind-Spd	Non-CH4 Wind-Dir	Methane	NOx	NO2	NO	SolarRad	Temp
Units	ppm %-rel	ppm mbar-msl	ppm km/h	ppm deg	ppm	ppm	ppm	ppm	W/cm^2	d C
Arith. Mean	.72 47.7	1.598 1013.0	.008 -	.460 -	1.172	.013	.008	.006	.0648	22.7
Std. Dev.	.14 .9	.139 .2	.003 -	.069 -	.083	.006	.003	.003	.0249	.6
Geo. Mean	.70 -	1.592 -	.007 -	.455 -	1.169	.012	.007	.005	-	-
Geo.Std.Dev	1.35 -	1.089 -	1.491 -	1.156 -	1.072	1.554	1.518	1.314	-	-
Min Reading	.05 45.2	1.336 1012.7	.005 12.3	.345 272.9	1.019	.005	.005	.005	.0145	21.2
Max Reading	.99 50.1	1.995 1013.3	.014 38.3	.713 344.2	1.415	.037	.015	.027	.0971	24.3
Min Average	.66 47.6	1.543 1012.9	.008 24.4	.450 296.9	1.124	.013	.006	.005	.0570	22.7
Max Average	.79 48.0	1.658 1013.1	.009 25.9	.479 304.1	1.221	.014	.009	.006	.0724	23.0
# Valid Rdgs	122. 122.	122. 122.	122. 122.	122. 122.	122.	122.	122.	122.	122.	122.
Min.Det.Lev	.10 -	.100 950.0	.010 -	.100 -	.100	.010	.010	.010	-	-
1 hr Crit.	30.00 -	- -	.250 -	- -	-	-	.200	-	-	-

\- Invalid Data / Not Calculated
nd Average is less than Min. Detectable Level
m One or more readings Missing
* Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %
Averaging Started at Nearest: .0 min

LONDON 84 : 313B

Start: 84/08/31 12:46 Scan: 60 sec
Average: 60.00 min Report: 10.00 min
Loc: ARTHUR STRINGER PUBLIC SCHOOL

Time	CO T-abs-Hg	TRS Ozone	THC SolarRad	SO2 Temp	Non-CH4 Humidity	Methane Barom	NOx Wind-Spd	NO2 Wind-Dir	NO	Hg
12:46-13:46	.5 .00	.009 .031	1.34 .088	nd 24.8	.53 48.	1.05 1017.1	nd 14.	nd 318.	nd	.08
12:56-13:56	.5 .00	.010 .032	1.36 .080	nd 24.7	.54 48.	1.04 1017.2	nd 13.	nd 320.	nd	.09
13:06-14:06	.5 .00	.010 .032	1.38 .076	.01 24.5	.56 49.	1.04 1017.2	nd 13.	nd 320.	nd	.10
13:16-14:16	.5 .00	.010 .032	1.40 .075	.01 24.6	.57 49.	1.05 1017.2	nd 13.	nd 322.	nd	.12
13:26-14:26	.5 .00	.010 .033	1.40 .077	.01 24.5	.58 49.	1.05 1017.2	nd 13.	nd 321.	nd	.13
13:36-14:36	.5 .00	.010 .033	1.42 .072	.01 24.5	.59 49.	1.05 1017.2	nd 13.	nd 323.	nd	.14
13:46-14:46	.5 .00	.010 .034	1.42 .076	.01 24.4	.59 50.	1.05 1017.2	nd 14.	nd 322.	nd	.14
13:56-14:56	.5 .00	.010 .035	1.43 .084	.01 24.6	.60 50.	1.05 1017.2	nd 13.	nd 319.	nd	.14
14:06-15:06	.5 .00	.009 .036	1.43 .091	nd 24.9	.60 49.	1.05 1017.2	nd 13.	nd 317.	nd	.14
14:16-15:16	.5 .00	.009 .036	1.45 .086	nd 24.9	.61 50.	1.05 1017.2	nd 13.	nd 319.	nd	.14
14:26-15:26	.5 .00	.010 .037	1.46 .074	nd 24.7	.62 50.	1.05 1017.1	nd 13.	nd 320.	nd	.14
14:36-15:36	.5 .00	.010 .037	1.48 .075	nd 24.5	.64 50.	1.05 1017.1	nd 12.	nd 321.	nd	.14

LONDON_84 : 313B

Statistics	CO T-abs-Hg	TRS Ozone	THC SolarRad	SO2 Temp	Non-CH4 Humidity	Methane Barom	NOx Wind-Spd	NO2 Wind-Dir	NO	Hg
Units	ppm ---	ppm ppm	ppm W/cm^2	ppm d C	ppm %-rel	ppm mbar-msl	ppm km/h	ppm deg	ppm	ug/m^3
Arith. Mean	.49 .000	.0093 .034	1.414 .0794	.009 24.6	.587 49.2	1.046 1017.1	.005 -	.005 -	.005	.121
Std. Dev.	.15 .000	.0027 .003	.072 .0305	.004 .7	.057 1.5	.008 .1	.001 -	.001 -	.000	.049
Geo. Mean	.48 -	.0088 .034	1.412 -	.008 -	.584 -	1.046 -	.005 -	.005 -	.005	.112
Geo.Std.Dev	1.20 -	1.4228 1.100	1.053 -	1.620 -	1.105 -	1.008 -	1.177 -	1.122 -	1.000	1.496
Min Reading	.37 .000	.0010 .027	1.240 .0212	.005 22.9	.452 45.7	1.027 1017.0	.005 5.8	.005 276.8	.005	.010
Max Reading	1.86 .000	.0176 .041	1.632 .1184	.019 26.0	.750 52.7	1.079 1017.4	.014 26.1	.012 358.6	.005	.311
Min Average	.47 .000	.0089 .031	1.338 .0719	.006 24.4	.526 48.0	1.044 1017.1	.005 12.2	.005 317.5	.005	.084
Max Average	.52 .000	.0099 .037	1.479 .0910	.014 24.9	.639 50.3	1.048 1017.2	.006 14.1	.005 323.3	.005	.143
# Valid Pdgs	176. 176.	176. 176.	176. 176.	176. 176.	176. 176.	176. 176.	176. 176.	176. 176.	176.	176.
Min.Det.Lev	.10 -	.0020 .004	.100 -	.010 -	.100 -	.100 950.0	.010 -	.010 -	.010	.050
1 hr Crit.	30.00 -	.0270 .080	- -	.250 -	- -	- -	- -	.200 -	-	-

- Invalid Data / Not Calculated
nd Average is less than Min. Detectable Level
m One or more readings Missing
Average is above Provincial Std/Criteria

Percent Valid Data Required for Valid Average: 90.0 %
Averaging Started at Nearest: .0 min

Appendix B

#6

SURVEY NAME

LONDON AUGUST-SEPTEMBER 1984

MAMU#1

units ug/m3 DATE: AUGUST 27/84

MAMU LOCATION #	271A
TIME PERIOD	1634-1734
PROPANE	1.26
PROPADIENE	
PROPYNE	
CHLOROMETHANE	
CYCLOPROPANE	
ISOBUTANE	
VINYL CHLORIDE	
1-BUTENE	
1,3-BUTADIENE	
BUTANE	2.33
1-BUTYNE	
CHLOROETHANE	
3-METHYL-1-BUTENE	
2-METHYLBUTANE	3.04
1-PENTENE	
PENTANE	1.52
ISOPRENE	
TRANS-2-PENTENE	
DICHLOROMETHANE	
2-METHYL-2-BUTENE	
2-CHLORO-2-METHYLBUTANE	
3-CHLOROPROPENE	
2,2-DIMETHYLBUTANE	
3-METHYL-1-PENTENE	
2,3-DIMETHYLBUTANE	
3-METHYLPENTANE	0.38
1-HEXENE	0.34
CIS-1,2-DICHLOROETHYLENE	
2-CHLOROBUTANE	
HEXANE	0.67
CHLOROFORM	
TRANS-3-HEXENE	
3-CHLORO-2-METHYLPROPENE	
METYHYLCYCLOPENTANE	0.18
1,2-DICHLOROETHANE	
1,1,1-TRICHLOROETHANE	
1-CHLOROBUTANE	
BENZENE	1.92
CARBON TETRACHLORIDE	
CYCLOHEXANE	
2-METHYLHEXANE	0.44
2,3-DIMETHYLPENTANE	0.24
CYCLOHEXENE	
DIBROMOMETHANE	
3-METHYLHEXANE	0.42
1,2-DICHLOROPROPANE	
2,3-DICHLOROPROPANE	
TRICHLOROETHYLENE	
2,2,4-TRIMETHYLPENTANE	
1-HEPTENE	
HEPTANE	

TRANS-2-HEPTENE
METHYLCYCLOHEXANE
2,5-DIMETHYLHEXANE
4-METHYLCYCLOHEXENE
1-CHLOROPENTANE
1,1,2-TRICHLOROETHANE
TOLUENE
1,3-DICHLOROPROPANE
2-METHYLHEPTANE
1,2-DIBROMOETHANE
1-OCTENE
TRANS1,2DIMETHYLCYLOHEXANE
TRANS-4-OCTENE
TETRACHLOROETHYLENE
OCTANE
2-METHYL-1-HEPTENE
2-OCTENE
CIS-1,2-DIMETHYLCYCLOHEXANE
CHLOROBENZENE
PROPYLCYCLOPENTANE
ETHYLCYCLOHEXANE
1-CHLOROHEXANE
ETHYLBENZENE
M-XYLENE
STYRENE
1,4-DICHLOROBUTANE
O-XYLENE
1,1,2,2-TETRACHLOROETHANE
1,2,3-TRICHLOROPROPANE
1-NONENE
NONANE
ISOPROPYLBENZENE
2-CHLOROTOLUENE
3-CHLOROTOLUENE
N-PROPYLBENZENE
4-CHLOROTOLUENE
3-ETHYLTOLUENE
4-ETHYLTOLUENE
1,3,5-TRIMETHYLBENZENE
2-ETHYLTOLUENE
T-BUTYLBENZENE
1,2,4-TRIMETHYLBENZENE
1,3-DICHLOROBENZENE
1-DECENE
A-CHLOROTOLUENE
1,5-DICHLOROPENTANE
DECANE
SEC.BUTYLBENZENE
3-(CHLOROMETHYL)-HEPTANE
1,2,3-TRIMETHYLBENZENE
1-ISOPROPYL-4-METHYLBENZENE
1,2-DICHLOROBENZENE
INDAN
N-BUTYLCYCLOHEXANE
1,3-DIETHYLBENZENE
1,4-DIETHYLBENZENE
N-BUTYLBENZENE
1,2-DIETHYLBENZENE
DECALIN
UNDECANE
1,2,3,5-TETRAMETHYLBENZENE
DIISOPROPYLBENZENE
1,2,3,4-TETRAMETHYLBENZENE
TETRALIN
DODECANE

Total hydrocarbons ug/m3:	12.74
Alkanes ug/m3	10.30
Cycloalkanes ug/m3	0.18
Alkenes ug/m3	0.34
Cycloalkenes ug/m3	0.00
Alkynes ug/m3	0.00
Aromatics ug/m3	1.92
Chlorinated alkanes ug/m3	0.00
Chlorinated alkenes ug/m3	0.00
Chlorinated aromatics ug/m3	0.00
Total # of compounds identified	12
Total # of peaks	33
Total area of peaks	1324.55
Area of identified peaks	496.93
Area % identified peaks	38

Toluene:Ethylbenzene

Benzene:Ethylbenzene

Xylenes:Ethylbenzene

Ethylbenzene:Ethylbenzene

SURVEY NAME

LONDON AUGUST-SEPTEMBER 1984

units ug/m3 DATE: AUGUST 28/84

MAMU LOCATION #	281A	281A
TIME PERIOD	1447-1547	1547-1647
PROPANE	2.63	
PROPADIENE		
PROPYNE		
CHLOROMETHANE		
CYCLOPROPANE		
ISOBUTANE	2.38	
VINYL CHLORIDE		
1-BUTENE		
1,3-BUTADIENE		
BUTANE	6.14	9.19
1-BUTYNE		
CHLOROETHANE		
3-METHYL-1-BUTENE		
2-METHYLBUTANE		4.73
1-PENTENE		
PENTANE		2.97
ISOPRENE		
TRANS-2-PENTENE		
DICHLOROMETHANE		
2-METHYL-2-BUTENE		
2-CHLORO-2-METHYLBUTANE		
3-CHLOROPROPENE		
2,2-DIMETHYLBUTANE		0.54
3-METHYL-1-PENTENE		
2,3-DIMETHYLBUTANE	0.98	
3-METHYLPENTANE	1.95	
1-HEXENE		
CIS-1,2-DICHLOROETHYLENE		
2-CHLOROBUTANE		
HEXANE	2.73	
CHLOROFORM		
TRANS-3-HEXENE		
3-CHLORO-2-METHYLPROPENE		
METYHYLCYCLOPENTANE		
1,2-DICHLOROETHANE		
1,1,1-TRICHLOROETHANE		
1-CHLOROBUTANE		
BENZENE		
CARBON TETRACHLORIDE		
CYCLOHEXANE		
2-METHYLHEXANE		
2,3-DIMETHYLPENTANE		
CYCLOHEXENE		
DIBROMOMETHANE		
3-METHYLHEXANE		
1,2-DICHLOROPROPANE		
2,3-DICHLOROPROPANE		
TRICHLOROETHYLENE		0.38
2,2,4-TRIMETHYLPENTANE		
1-HEPTENE		
HEPTANE		1.52
1-CHLORO-3-METHYLBUTANE		

TRANS-2-HEPTENE		
METHYLCYCLOHEXANE		
2,5-DIMETHYLHEXANE		0.52
4-METHYLCYCLOHEXENE	0.25	0.25
1-CHLOROPENTANE		
1,1,2-TRICHLOROETHANE		
TOLUENE		7.02
1,3-DICHLOROPROPANE		
2-METHYLHEPTANE		0.66
1,2-DIBROMOETHANE		
1-OCTENE		
TRANS1,2DIMETHYLCYLOHEXANE		0.25
TRANS-4-OCTENE		
TETRACHLOROETHYLENE		
OCTANE	0.62	1.00
2-METHYL-1-HEPTENE		
2-OCTENE		
CIS-1,2-DIMETHYLCYCLOHEXANE		
CHLOROBENZENE		
PROPYLCYCLOPENTANE		
ETHYLCYCLOHEXANE		0.68
1-CHLOROHEXANE		
ETHYLBENZENE	0.85	2.30
M-XYLENE	1.17	4.87
STYRENE		
1,4-DICHLOROBUTANE		
O-XYLENE	0.36	1.57
1,1,2,2-TETRACHLOROETHANE		
1,2,3-TRICHLOROPROPANE		
1-NONENE		
NONANE		0.70
ISOPROPYLBENZENE		
2-CHLOROTOLUENE		
3-CHLOROTOLUENE		
N-PROPYLBENZENE		
4-CHLOROTOLUENE		
3-ETHYLTOLUENE		0.58
4-ETHYLTOLUENE		
1,3,5-TRIMETHYLBENZENE		
2-ETHYLTOLUENE		
T-BUTYLBENZENE		
1,2,4-TRIMETHYLBENZENE		1.19
1,3-DICHLOROBENZENE		
1-DECENE		
A-CHLOROTOLUENE		
1,5-DICHLOROPENTANE		
DECANE		0.47
SEC.BUTYLBENZENE		
3-(CHLOROMETHYL)-HEPTANE		
1,2,3-TRIMETHYLBENZENE		
1-ISOPROPYL-4-METHYLBENZENE		
1,2-DICHLOROBENZENE		
INDAN		
N-BUTYLCYCLOHEXANE		
1,3-DIETHYLBENZENE		
1,4-DIETHYLBENZENE		
N-BUTYLBENZENE		
1,2-DIETHYLBENZENE		
DECALIN		
UNDECANE		
1,2,3,5-TETRAMETHYLBENZENE		
DIISOPROPYLBENZENE		
1,2,3,4-TETRAMETHYLBENZENE		
TETRALIN		
DODECANE		

Total hydrocarbons ug/m3:	20.06	41.39
Alkanes ug/m3	17.43	22.30
Cycloalkanes ug/m3	0.00	0.93
Alkenes ug/m3	0.00	0.00
Cycloalkenes ug/m3	0.25	0.25
Alkynes ug/m3	0.00	0.00
Aromatics ug/m3	2.38	17.53
Chlorinated alkanes ug/m3	0.00	0.00
Chlorinated alkenes ug/m3	0.00	0.38
Chlorinated aromatics ug/m3	0.00	0.00
Total # of compounds identified	11	20
Total # of peaks	49	64
Total area of peaks	3056.90	4732.15
Area of identified peaks	823.00	1704.39
Area % identified peaks	27	36
Toluene:Ethylbenzene	0.00	3.05
Benzene:Ethylbenzene	0.00	0.00
Xylenes:Ethylbenzene	1.80	2.80
Ethylbenzene:Ethylbenzene	1.00	1.00

SURVEY NAME

LONDON AUGUST-SEPTEMBER 1984

units ug/m3 DATE: AUGUST 30/84

MAMU LOCATION #	302A	302A
TIME PERIOD	1651-1751	1751-1851
PROPANE	1.30	2.96
PROPADIENE		
PROPYNE	0.27	
CHLOROMETHANE	1.00	0.80
CYCLOPROPANE		
ISOBUTANE		
VINYL CHLORIDE		
1-BUTENE		
1,3-BUTADIENE	0.99	
BUTANE	11.21	34.37
1-BUTYNE		
CHLOROETHANE		
3-METHYL-1-BUTENE		
2-METHYLBUTANE	20.22	35.84
1-PENTENE		
PENTANE	11.25	16.54
ISOPRENE		
TRANS-2-PENTENE		
DICHLOROMETHANE		
2-METHYL-2-BUTENE		
2-CHLORO-2-METHYLBUTANE		
3-CHLOROPROPENE		
2,2-DIMETHYLBUTANE	0.61	0.76
3-METHYL-1-PENTENE		
2,3-DIMETHYLBUTANE	1.03	1.16
3-METHYLPENTANE		3.11
1-HEXENE		
CIS-1,2-DICHLOROETHYLENE		
2-CHLOROBUTANE		
HEXANE		4.24
CHLOROFORM		
TRANS-3-HEXENE		
3-CHLORO-2-METHYLPROPENE		
METYHYLCYCLOPENTANE		1.69
1,2-DICHLOROETHANE		
1,1,1-TRICHLOROETHANE		
1-CHLOROBUTANE		
BENZENE	5.18	8.61
CARBON TETRACHLORIDE		
CYCLOHEXANE		
2-METHYLHEXANE		
2,3-DIMETHYLPENTANE	2.58	2.50
CYCLOHEXENE		
DIBROMOMETHANE		
3-METHYLHEXANE		
1,2-DICHLOROPROPANE		
2,3-DICHLOROPROPANE		
TRICHLOROETHYLENE		
2,2,4-TRIMETHYLPENTANE		
1-HEPTENE		
HEPTANE		

TRANS-2-HEPTENE		
METHYLCYCLOHEXANE		
2,5-DIMETHYLHEXANE		
4-METHYLCYCLOHEXENE		
1-CHLOROPENTANE		
1,1,2-TRICHLOROETHANE		
TOLUENE	5.82	6.52
1,3-DICHLOROPROPANE		
2-METHYLHEPTANE		
1,2-DIBROMOETHANE		
1-OCTENE		
TRANS1,2DIMETHYLCYLOHEXANE		
TRANS-4-OCTENE		
TETRACHLOROETHYLENE		
OCTANE		
2-METHYL-1-HEPTENE		
2-OCTENE		
CIS-1,2-DIMETHYLCYCLOHEXANE		
CHLOROBENZENE		
PROPYLCYCLOPENTANE		
ETHYLCYCLOHEXANE		
1-CHLOROHEXANE		
ETHYLBENZENE		
M-XYLENE		
STYRENE		
1,4-DICHLOROBUTANE		
O-XYLENE		
1,1,2,2-TETRACHLOROETHANE		
1,2,3-TRICHLOROPROPANE		
1-NONENE		
NONANE		
ISOPROPYLBENZENE		
2-CHLOROTOLUENE		
3-CHLOROTOLUENE		
N-PROPYLBENZENE		
4-CHLOROTOLUENE		
3-ETHYLTOLUENE	0.77	0.63
4-ETHYLTOLUENE		
1,3,5-TRIMETHYLBENZENE		
2-ETHYLTOLUENE		
T-BUTYLBENZENE		
1,2,4-TRIMETHYLBENZENE	1.30	1.11
1,3-DICHLOROBENZENE		
1-DECENE		
A-CHLOROTOLUENE		
1,5-DICHLOROPENTANE		
DECANE		
SEC.BUTYLBENZENE		
3-(CHLOROMETHYL)-HEPTANE		
1,2,3-TRIMETHYLBENZENE		
1-ISOPROPYL-4-METHYLBENZENE		
1,2-DICHLOROBENZENE		
INDAN		
N-BUTYLCYCLOHEXANE		
1,3-DIETHYLBENZENE		
1,4-DIETHYLBENZENE		
N-BUTYLBENZENE		
1,2-DIETHYLBENZENE		
DECALIN		
UNDECANE		
1,2,3,5-TETRAMETHYLBENZENE		
DIISOPROPYLBENZENE		
1,2,3,4-TETRAMETHYLBENZENE		
TETRALIN		
DODECANE		

Total hydrocarbons ug/m3:	63.53	120.84
Alkanes ug/m3	48.20	101.48
Cycloalkanes ug/m3	0.00	1.69
Alkenes ug/m3	0.99	0.00
Cycloalkenes ug/m3	0.00	0.00
Alkynes ug/m3	0.27	0.00
Aromatics ug/m3	13.07	16.87
Chlorinated alkanes ug/m3	1.00	0.80
Chlorinated alkenes ug/m3	0.00	0.00
Chlorinated aromatics ug/m3	0.00	0.00
Total # of compounds identified	14	15
Total # of peaks	57	52
Total area of peaks	4730.56	7268.62
Area of identified peaks	2715.01	5081.40
Area % identified peaks	57	70

Toluene:Ethylbenzene

Benzene:Ethylbenzene

Xylenes:Ethylbenzene

Ethylbenzene:Ethylbenzene

SURVEY NAME

LONDON AUGUST-SEPTEMBER 1984

units ug/m3 DATE: AUGUST 31/84

MAMU LOCATION #	312A	312A	313A	313A
TIME PERIOD	1130-1230	1230-1330	1400-1500	1500-1600
PROPANE			0.93	
PROPADIENE				
PROPYNE				
CHLOROMETHANE		0.45		
CYCLOPROPANE				
ISOBUTANE	1.22	1.50	1.17	
VINYL CHLORIDE				
1-BUTENE				
1,3-BUTADIENE	0.39			
BUTANE	4.23	4.66	3.92	1.90
1-BUTYNE				
CHLOROETHANE				
3-METHYL-1-BUTENE				
2-METHYLBUTANE	6.45	8.20	7.33	5.26
1-PENTENE				
PENTANE	2.71	4.07	3.91	2.86
ISOPRENE				0.34
TRANS-2-PENTENE				
DICHLOROMETHANE				
2-METHYL-2-BUTENE				
2-CHLORO-2-METHYLBUTANE				
3-CHLOROPROPENE				
2,2-DIMETHYLBUTANE		0.27	0.22	
3-METHYL-1-PENTENE				
2,3-DIMETHYLBUTANE		0.60	0.50	0.47
3-METHYLPENTANE		0.92	0.72	0.90
1-HEXENE				
CIS-1,2-DICHLOROETHYLENE				
2-CHLOROBUTANE				
HEXANE		1.29		1.38
CHLOROFORM				
TRANS-3-HEXENE				
3-CHLORO-2-METHYLPROPENE				
METYHYLCYCLOPENTANE		0.53	0.48	0.44
1,2-DICHLOROETHANE				
1,1,1-TRICHLOROETHANE				
1-CHLOROBUTANE				
BENZENE	1.57	2.23	2.26	6.80
CARBON TETRACHLORIDE				
CYCLOHEXANE				
2-METHYLHEXANE		1.27		
2,3-DIMETHYLPENTANE	0.27	0.69	0.55	0.92
CYCLOHEXENE				
DIBROMOMETHANE				
3-METHYLHEXANE		1.15		1.17
1,2-DICHLOROPROPANE				
2,3-DICHLOROPROPANE				
TRICHLOROETHYLENE				
2,2,4-TRIMETHYLPENTANE	0.23	0.54	0.28	0.56
1-HEPTENE				
HEPTANE				
1-CHLORO-3-METHYLBUTANE				

TRANS-2-HEPTENE				
METHYLCYCLOHEXANE		0.25		
2,5-DIMETHYLHEXANE				
4-METHYLCYCLOHEXENE				
1-CHLOROPENTANE				
1,1,2-TRICHLOROETHANE				
TOLUENE	1.20	2.35	1.62	3.85
1,3-DICHLOROPROPANE				
2-METHYLHEPTANE				
1,2-DIBROMOETHANE				
1-OCTENE				
TRANS1,2DIMETHYLCYLOHEXANE				
TRANS-4-OCTENE				
TETRACHLOROETHYLENE				
OCTANE				
2-METHYL-1-HEPTENE				
2-OCTENE				
CIS-1,2-DIMETHYLCYCLOHEXANE				
CHLOROBENZENE				
PROPYLCYCLOPENTANE				
ETHYLCYCLOHEXANE				
1-CHLOROHEXANE				
ETHYLBENZENE				
M-XYLENE				
STYRENE				
1,4-DICHLOROBUTANE				
O-XYLENE		0.35		
1,1,2,2-TETRACHLOROETHANE				
1,2,3-TRICHLOROPROPANE				
1-NONENE				
NONANE				
ISOPROPYLBENZENE				
2-CHLOROTOLUENE				
3-CHLOROTOLUENE				
N-PROPYLBENZENE				
4-CHLOROTOLUENE				
3-ETHYLTOLUENE		0.22		
4-ETHYLTOLUENE				
1,3,5-TRIMETHYLBENZENE				
2-ETHYLTOLUENE				
T-BUTYLBENZENE				
1,2,4-TRIMETHYLBENZENE		0.78		
1,3-DICHLOROBENZENE				
1-DECENE				
A-CHLOROTOLUENE				
1,5-DICHLOROPENTANE				
DECANE				
SEC.BUTYLBENZENE				
3-(CHLOROMETHYL)-HEPTANE				
1,2,3-TRIMETHYLBENZENE				
1-ISOPROPYL-4-METHYLBENZENE				
1,2-DICHLOROBENZENE				
INDAN				
N-BUTYLCYCLOHEXANE				
1,3-DIETHYLBENZENE				
1,4-DIETHYLBENZENE				
N-BUTYLBENZENE				
1,2-DIETHYLBENZENE				
DECALIN				
UNDECANE				
1,2,3,5-TETRAMETHYLBENZENE				
DIISOPROPYLBENZENE				
1,2,3,4-TETRAMETHYLBENZENE				
TETRALIN				
DODECANE				

Total hydrocarbons ug/m3:	18.27	32.32	23.89	26.85
Alkanes ug/m3	15.11	25.16	19.53	15.42
Cycloalkanes ug/m3	0.00	0.78	0.48	0.44
Alkenes ug/m3	0.39	0.00	0.00	0.34
Cycloalkenes ug/m3	0.00	0.00	0.00	0.00
Alkynes ug/m3	0.00	0.00	0.00	0.00
Aromatics ug/m3	2.77	5.93	3.88	10.65
Chlorinated alkanes ug/m3	0.00	0.45	0.00	0.00
Chlorinated alkenes ug/m3	0.00	0.00	0.00	0.00
Chlorinated aromatics ug/m3	0.00	0.00	0.00	0.00
Total # of compounds identified	9	20	13	13
Total # of peaks	26	47	30	32
Total area of peaks	1094.48	1900.00	1877.45	1891.91
Area of identified peaks	734.10	1220.00	1015.10	1138.92
Area % identified peaks	67	64	54	60

Toluene:Ethylbenzene

Benzene:Ethylbenzene

Xylenes:Ethylbenzene

Ethylbenzene:Ethylbenzene

SURVEY NAME

LONDON AUGUST-SEPTEMBER 1984

units ug/m3 DATE: SEPTEMBER 4/84

MAMU LOCATION #	041A	041A	041A	041A
TIME PERIOD	1142-1253	1253-1353	1353-1453	1453-1553
PROPANE		1.38		1.42
PROPADIENE				
PROPYNE				
CHLOROMETHANE				
CYCLOPROPANE				
ISOBUTANE		1.18		
VINYL CHLORIDE				
1-BUTENE				
1,3-BUTADIENE				
BUTANE	2.05	1.49		1.67
1-BUTYNE				
CHLOROETHANE				
3-METHYL-1-BUTENE				
2-METHYLBUTANE			1.28	
1-PENTENE				
PENTANE			0.67	
ISOPRENE				
TRANS-2-PENTENE				
DICHLOROMETHANE				
2-METHYL-2-BUTENE				
2-CHLORO-2-METHYLBUTANE				
3-CHLOROPROPENE				
2,2-DIMETHYLBUTANE				
3-METHYL-1-PENTENE				
2,3-DIMETHYLBUTANE				
3-METHYLPENTANE				
1-HEXENE				
CIS-1,2-DICHLOROETHYLENE				
2-CHLOROBUTANE				
HEXANE				
CHLOROFORM				
TRANS-3-HEXENE				
3-CHLORO-2-METHYLPROPENE				
METYHYLCYCLOPENTANE				
1,2-DICHLOROETHANE				
1,1,1-TRICHLOROETHANE				
1-CHLOROBUTANE				
BENZENE	1.53	5.61	1.62	1.73
CARBON TETRACHLORIDE				
CYCLOHEXANE				
2-METHYLHEXANE				
2,3-DIMETHYLPENTANE				0.37
CYCLOHEXENE				
DIBROMOMETHANE				
3-METHYLHEXANE				
1,2-DICHLOROPROPANE				
2,3-DICHLOROPROPANE				
TRICHLOROETHYLENE				
2,2,4-TRIMETHYLPENTANE				0.21
1-HEPTENE				
HEPTANE				

TRANS-2-HEPTENE			
METHYLCYCLOHEXANE			
2,5-DIMETHYLHEXANE			
4-METHYLCYCLOHEXENE			
1-CHLOROPENTANE			
1,1,2-TRICHLOROETHANE			
TOLUENE	0.84	1.95	1.71
1,3-DICHLOROPROPANE			
2-METHYLHEPTANE			
1,2-DIBROMOETHANE			
1-OCTENE			
TRANS1,2DIMETHYLCYLOHEXANE			
TRANS-4-OCTENE			
TETRACHLOROETHYLENE			
OCTANE			
2-METHYL-1-HEPTENE			
2-OCTENE			
CIS-1,2-DIMETHYLCYCLOHEXANE			
CHLOROBENZENE			
PROPYLCYCLOPENTANE			
ETHYLCYCLOHEXANE			
1-CHLOROHEXANE			
ETHYLBENZENE			
M-XYLENE			
STYRENE			
1,4-DICHLOROBUTANE			
O-XYLENE			
1,1,2,2-TETRACHLOROETHANE			
1,2,3-TRICHLOROPROPANE			
1-NONENE			
NONANE			
ISOPROPYLBENZENE			
2-CHLOROTOLUENE			
3-CHLOROTOLUENE			
N-PROPYLBENZENE			
4-CHLOROTOLUENE			
3-ETHYLTOLUENE			
4-ETHYLTOLUENE			
1,3,5-TRIMETHYLBENZENE			
2-ETHYLTOLUENE			
T-BUTYLBENZENE			
1,2,4-TRIMETHYLBENZENE			
1,3-DICHLOROBENZENE			
1-DECENE			
A-CHLOROTOLUENE			
1,5-DICHLOROPENTANE			
DECANE			
SEC.BUTYLBENZENE			
3-(CHLOROMETHYL)-HEPTANE			
1,2,3-TRIMETHYLBENZENE			
1-ISOPROPYL-4-METHYLBENZENE			
1,2-DICHLOROBENZENE			
INDAN			
N-BUTYLCYCLOHEXANE			
1,3-DIETHYLBENZENE			
1,4-DIETHYLBENZENE			
N-BUTYLBENZENE			
1,2-DIETHYLBENZENE			
DECALIN			
UNDECANE			
1,2,3,5-TETRAMETHYLBENZENE			
DIISOPROPYLBENZENE			
1,2,3,4-TETRAMETHYLBENZENE			
TETRALIN			
DODECANE			

Total hydrocarbons ug/m3:	4.42	11.61	3.57	7.11
Alkanes ug/m3	2.05	4.05	1.95	3.67
Cycloalkanes ug/m3	0.00	0.00	0.00	0.00
Alkenes ug/m3	0.00	0.00	0.00	0.00
Cycloalkenes ug/m3	0.00	0.00	0.00	0.00
Alkynes ug/m3	0.00	0.00	0.00	0.00
Aromatics ug/m3	2.37	7.56	1.62	3.44
Chlorinated alkanes ug/m3	0.00	0.00	0.00	0.00
Chlorinated alkenes ug/m3	0.00	0.00	0.00	0.00
Chlorinated aromatics ug/m3	0.00	0.00	0.00	0.00
Total # of compounds identified	3	5	3	6
Total # of peaks	30	24	22	34
Total area of peaks	800.00	1469.05	536.00	997.00
Area of identified peaks	190.00	524.52	182.00	302.50
Area % identified peaks	24	36	34	30

Toluene:Ethylbenzene

Benzene:Ethylbenzene

Xylenes:Ethylbenzene

Ethylbenzene:Ethylbenzene

SURVEY NAME

LONDON AUGUST-SEPTEMBER 1984

units ug/m3 DATE: SEPTEMBER 5/84

MAMU LOCATION #	052A	052A	052A	053A	053A
TIME PERIOD	1059-1159	1159-1259	1259-1359	1446-1546	1546-1646
PROPANE		1.45		5.68	10.91
PROPADIENE					
PROPYNE					0.38
CHLOROMETHANE	0.61			3.36	0.60
CYCLOPROPANE					
ISOBUTANE	0.65			0.94	1.06
VINYL CHLORIDE					
1-BUTENE	0.10	0.57			
1,3-BUTADIENE		0.53	0.13		2.73
BUTANE	1.94	0.59	2.24	3.07	4.29
1-BUTYNE					
CHLOROETHANE					
3-METHYL-1-BUTENE					
2-METHYLBUTANE	2.94	0.99	3.63	9.01	12.48
1-PENTENE					
PENTANE	1.49	0.96	1.20	5.03	7.03
ISOPRENE					
TRANS-2-PENTENE					
DICHLOROMETHANE					
2-METHYL-2-BUTENE					
2-CHLORO-2-METHYLBUTANE					
3-CHLOROPROPENE					
2,2-DIMETHYLBUTANE					0.41
3-METHYL-1-PENTENE					
2,3-DIMETHYLBUTANE	0.20		0.29	1.10	1.16
3-METHYLPENTANE	0.36		0.55	1.75	2.38
1-HEXENE					
CIS-1,2-DICHLOROETHYLENE					0.07
2-CHLOROBUTANE					
HEXANE	0.56		0.73	2.50	3.50
CHLOROFORM					
TRANS-3-HEXENE					
3-CHLORO-2-METHYLPROPENE					
METYHYLCYCLOPENTANE	0.17		0.25	0.93	1.38
1,2-DICHLOROETHANE					
1,1,1-TRICHLOROETHANE					
1-CHLOROBUTANE					
BENZENE	1.16	3.93	1.27	6.97	4.97
CARBON TETRACHLORIDE					
CYCLOHEXANE					
2-METHYLHEXANE	0.59			2.90	4.55
2,3-DIMETHYLPENTANE	0.32	0.60	0.45	1.59	2.50
CYCLOHEXENE					
DIBROMOMETHANE					
3-METHYLHEXANE	0.44			2.28	3.64
1,2-DICHLOROPROPANE					
2,3-DICHLOROPROPANE					0.18
TRICHLOROETHYLENE				0.17	0.34
2,2,4-TRIMETHYLPENTANE	0.16		0.19	0.55	0.76
1-HEPTENE					
HEPTANE	0.19			0.83	1.24
1-CHLORO-3-METHYLBUTANE					

TRANS-2-HEPTENE					
METHYLCYCLOHEXANE	0.14			0.56	0.74
2,5-DIMETHYLHEXANE					
4-METHYLCYCLOHEXENE					
1-CHLOROPENTANE				0.12	0.16
1,1,2-TRICHLOROETHANE					
TOLUENE	1.71	2.47	1.61	6.89	8.52
1,3-DICHLOROPROPANE					
2-METHYLHEPTANE					
1,2-DIBROMOETHANE					
1-OCTENE				0.06	0.09
TRANS1,2DIMETHYLCYLOHEXANE					0.07
TRANS-4-OCTENE					
TETRACHLOROETHYLENE					
OCTANE					0.55
2-METHYL-1-HEPTENE					
2-OCTENE					
CIS-1,2-DIMETHYLCYCLOHEXANE					0.16
CHLOROBENZENE					
PROPYLCYCLOPENTANE					0.07
ETHYLCYCLOHEXANE				0.13	
1-CHLOROHEXANE					0.24
ETHYLBENZENE					2.17
M-XYLENE+P-XYLENE			0.81	3.19	5.57
STYRENE					
1,4-DICHLOROBUTANE					
O-XYLENE				0.85	1.76
1,1,2,2-TETRACHLOROETHANE				2.60	
1,2,3-TRICHLOROPROPANE					
1-NONENE					
NONANE					0.36
ISOPROPYLBENZENE					
2-CHLOROTOLUENE					
3-CHLOROTOLUENE					
N-PROPYLBENZENE					
4-CHLOROTOLUENE					0.24
3-ETHYLTOLUENE				0.27	0.87
4-ETHYLTOLUENE		0.14		0.20	
1,3,5-TRIMETHYLBENZENE					
2-ETHYLTOLUENE					0.37
T-BUTYLBENZENE					
1,2,4-TRIMETHYLBENZENE					1.59
1,3-DICHLOROBENZENE					
1-DECENE					
A-CHLOROTOLUENE					
1,5-DICHLOROPENTANE					
DECANE					
SEC.BUTYLBENZENE					
3-(CHLOROMETHYL)-HEPTANE					
1,2,3-TRIMETHYLBENZENE					
1-ISOPROPYL-4-METHYLBENZENE					
1,2-DICHLOROBENZENE					
INDAN					
N-BUTYLCYCLOHEXANE					
1,3-DIETHYLBENZENE					
1,4-DIETHYLBENZENE					
N-BUTYLBENZENE					
1,2-DIETHYLBENZENE					
DECALIN					
UNDECANE					
1,2,3,5-TETRAMETHYLBENZENE					
DIISOPROPYLBENZENE					
1,2,3,4-TETRAMETHYLBENZENE					
TETRALIN					
DODECANE					

Total hydrocarbons ug/m3:	13.73	12.23	13.35	63.53	90.09
Alkanes ug/m3	9.84	4.59	9.28	37.23	56.82
Cycloalkanes ug/m3	0.31	0.00	0.25	1.62	2.42
Alkenes ug/m3	0.10	1.10	0.13	0.06	2.82
Cycloalkenes ug/m3	0.00	0.00	0.00	0.00	0.00
Alkynes ug/m3	0.00	0.00	0.00	0.00	0.38
Aromatics ug/m3	2.87	6.54	3.69	18.37	25.82
Chlorinated alkanes ug/m3	0.61	0.00	0.00	6.08	1.00
Chlorinated alkenes ug/m3	0.00	0.00	0.00	0.17	0.59
Chlorinated aromatics ug/m3	0.00	0.00	0.00	0.00	0.24
Total # of compounds identified	18	10	13	27	39
Total # of peaks	36	76	48	90	98
Total area of peaks	823.69	1557.00	1037.00	4085.00	4539.00
Area of identified peaks	562.00	525.00	567.00	2503.00	3332.00
Area % identified peaks	68	34	55	61	73

Toluene:Ethylbenzene	3.93
Benzene:Ethylbenzene	2.29
Xylenes:Ethylbenzene	3.38
Ethylbenzene:Ethylbenzene	1.00

SURVEY NAME

LONDON AUGUST-SEPTEMBER 1984

units ug/m3 DATE: SEPTEMBER 6/84

MAMU LOCATION #	TH061A	TH061A	064A
TIME PERIOD	1059-1159	1522-1622	
		1159-1259	
PROPANE	2.50	0.87	
PROPADIENE			
PROPYNE			
CHLOROMETHANE	3.70		
CYCLOPROPANE			
ISOBUTANE	1.40	1.29	
VINYL CHLORIDE			
1-BUTENE	0.50		
1,3-BUTADIENE		0.07	0.10
BUTANE	3.61	3.23	3.00
1-BUTYNE			
CHLOROETHANE			
3-METHYL-1-BUTENE			
2-METHYLBUTANE	7.23	5.17	6.96
1-PENTENE			
PENTANE	3.53	2.50	4.37
ISOPRENE			
TRANS-2-PENTENE			
DICHLOROMETHANE			
2-METHYL-2-BUTENE			
2-CHLORO-2-METHYLBUTANE			
3-CHLOROPROPENE			
2,2-DIMETHYLBUTANE			0.50
3-METHYL-1-PENTENE	0.30		
2,3-DIMETHYLBUTANE	0.46	0.38	0.88
3-METHYLPENTANE	0.83	0.69	2.51
1-HEXENE			
CIS-1,2-DICHLOROETHYLENE			
2-CHLOROBUTANE			
HEXANE	1.32	1.01	4.48
CHLOROFORM			
TRANS-3-HEXENE			
3-CHLORO-2-METHYLPROPENE			
METYHYLCYCLOPENTANE	0.44	0.36	1.58
1,2-DICHLOROETHANE			
1,1,1-TRICHLOROETHANE			
1-CHLOROBUTANE			
BENZENE	6.13	2.47	7.69
CARBON TETRACHLORIDE			
CYCLOHEXANE			
2-METHYLHEXANE	1.06	0.66	5.83
2,3-DIMETHYLPENTANE	0.58	0.36	3.20
CYCLOHEXENE			
DIBROMOMETHANE			
3-METHYLHEXANE	0.73	0.64	4.08
1,2-DICHLOROPROPANE			
2,3-DICHLOROPROPANE			
TRICHLOROETHYLENE	0.05	0.05	
2,2,4-TRIMETHYLPENTANE	0.29	0.19	1.76
1-HEPTENE			
HEPTANE	0.30	0.19	1.33
1-CHLORO-3-METHYLBUTANE			

TRANS-2-HEPTENE			
METHYLCYCLOHEXANE	0.15	0.15	0.72
2,5-DIMETHYLHEXANE			0.45
4-METHYLCYCLOHEXENE			0.22
1-CHLOROPENTANE			0.33
1,1,2-TRICHLOROETHANE			
TOLUENE	2.03	1.39	5.53
1,3-DICHLOROPROPANE			
2-METHYLHEPTANE			
1,2-DIBROMOETHANE			
1-OCTENE			0.20
TRANS1,2DIMETHYLCYLOHEXANE			0.08
TRANS-4-OCTENE			
TETRACHLOROETHYLENE			0.55
OCTANE			0.49
2-METHYL-1-HEPTENE			
2-OCTENE			
CIS-1,2-DIMETHYLCYCLOHEXANE			
CHLOROBENZENE			
PROPYLCYCLOPENTANE			
ETHYLCYCLOHEXANE			0.23
1-CHLOROHEXANE			
ETHYLBENZENE			1.15
M-XYLENE + P-XYLENE	0.57	0.57	2.78
STYRENE			
1,4-DICHLOROBUTANE			
O-XYLENE	0.18		0.92
1,1,2,2-TETRACHLOROETHANE			
1,2,3-TRICHLOROPROPANE			
1-NONENE			
NONANE	0.10		0.35
ISOPROPYLBENZENE			0.12
2-CHLOROTOLUENE			
3-CHLOROTOLUENE			
N-PROPYLBENZENE			0.20
4-CHLOROTOLUENE			0.27
3-ETHYLTOLUENE	0.13		0.69
4-ETHYLTOLUENE			
1,3,5-TRIMETHYLBENZENE			0.43
2-ETHYLTOLUENE			0.28
T-BUTYLBENZENE			0.72
1,2,4-TRIMETHYLBENZENE			1.25
1,3-DICHLOROBENZENE			
1-DECENE			
A-CHLOROTOLUENE			
1,5-DICHLOROPENTANE			
DECANE			0.35
SEC.BUTYLBENZENE			
3-(CHLOROMETHYL)-HEPTANE			
1,2,3-TRIMETHYLBENZENE			
1-ISOPROPYL-4-METHYLBENZENE			
1,2-DICHLOROBENZENE			
INDAN			
N-BUTYLCYCLOHEXANE			
1,3-DIETHYLBENZENE			
1,4-DIETHYLBENZENE			
N-BUTYLBENZENE			
1,2-DIETHYLBENZENE			
DECALIN			
UNDECANE			
1,2,3,5-TETRAMETHYLBENZENE			
DIISOPROPYLBENZENE			
1,2,3,4-TETRAMETHYLBENZENE			
TETRALIN			
DODECANE			

Total hydrocarbons ug/m3:	38.12	22.24	66.58
Alkanes ug/m3	23.94	17.18	40.54
Cycloalkanes ug/m3	0.59	0.51	2.61
Alkenes ug/m3	0.80	0.07	0.30
Cycloalkenes ug/m3	0.00	0.00	0.22
Alkynes ug/m3	0.00	0.00	0.00
Aromatics ug/m3	9.04	4.43	21.76
Chlorinated alkanes ug/m3	3.70	0.00	0.33
Chlorinated alkenes ug/m3	0.05	0.05	0.55
Chlorinated aromatics ug/m3	0.00	0.00	0.27
Total # of compounds identified	25	20	38
Total # of peaks	94	52	98
Total area of peaks	3216.76	1401.50	4612.50
Area of identified peaks	1568.30	902.00	2588.00
Area % identified peaks	49	64	56
Toluene:Ethylbenzene			4.81
Benzene:Ethylbenzene			6.69
Xylenes:Ethylbenzene			3.22
Ethylbenzene:Ethylbenzene			1.00

SURVEY NAME

LONDON AUGUST-SEPTEMBER 1984

units ug/m3 DATE: SEPTEMBER 7/84

MAMU LOCATION #	072A	072A
TIME PERIOD	1038-1138	
		1138-1238
PROPANE	3.48	7.96
PROPADIENE		
PROPYNE		
CHLOROMETHANE		0.65
CYCLOPROPANE		0.65
ISOBUTANE		3.63
VINYL CHLORIDE		
1-BUTENE		
1,3-BUTADIENE		
BUTANE	5.83	8.52
1-BUTYNE		1.23
CHLOROETHANE		
3-METHYL-1-BUTENE		
2-METHYLBUTANE		6.52
1-PENTENE		
PENTANE	2.14	2.57
ISOPRENE		
TRANS-2-PENTENE		
DICHLOROMETHANE		
2-METHYL-2-BUTENE		
2-CHLORO-2-METHYLBUTANE		
3-CHLOROPROPENE		
2,2-DIMETHYLBUTANE		
3-METHYL-1-PENTENE		
2,3-DIMETHYLBUTANE	0.81	0.58
3-METHYLPENTANE		1.05
1-HEXENE		
CIS-1,2-DICHLOROETHYLENE		
2-CHLOROBUTANE		
HEXANE		1.64
CHLOROFORM		
TRANS-3-HEXENE		
3-CHLORO-2-METHYLPROPENE		
METYHYLCYCLOPENTANE		0.52
1,2-DICHLOROETHANE		
1,1,1-TRICHLOROETHANE		
1-CHLOROBUTANE		
BENZENE	5.36	4.69
CARBON TETRACHLORIDE		
CYCLOHEXANE		
2-METHYLHEXANE		1.96
2,3-DIMETHYLPENTANE	1.11	1.07
CYCLOHEXENE		
DIBROMOMETHANE		
3-METHYLHEXANE		1.46
1,2-DICHLOROPROPANE		
2,3-DICHLOROPROPENE		
TRICHLOROETHYLENE	0.46	0.11
2,2,4-TRIMETHYLPENTANE	0.56	0.68
1-HEPTENE		
HEPTANE		0.70
1-CHLORO-3-METHYLBUTANE		

TRANS-2-HEPTENE		
METHYLCYCLOHEXANE		0.40
2,5-DIMETHYLHEXANE		
4-METHYLCYCLOHEXENE		
1-CHLOROPENTANE	0.14	0.18
1,1,2-TRICHLOROETHANE		
TOLUENE	4.55	4.47
1,3-DICHLOROPROPANE		
2-METHYLHEPTANE		
1,2-DIBROMOETHANE		
1-OCTENE	0.11	0.15
TRANS1,2DIMETHYLCYLOHEXANE		0.09
TRANS-4-OCTENE		
TETRACHLOROETHYLENE		
OCTANE		0.51
2-METHYL-1-HEPTENE		
2-OCTENE		
CIS-1,2-DIMETHYLCYCLOHEXANE	0.20	0.13
CHLOROBENZENE		
PROPYLCYCLOPENTANE		
ETHYLCYCLOHEXANE		0.26
1-CHLOROHEXANE	0.18	
ETHYLBENZENE		1.97
M-XYLENE+P-XYLENE	5.28	5.46
STYRENE		
1,4-DICHLOROBUTANE	0.13	
O-XYLENE	1.80	1.76
1,1,2,2-TETRACHLOROETHANE		
1,2,3-TRICHLOROPROPANE		
1-NONENE		
NONANE		0.41
ISOPROPYLBENZENE		
2-CHLOROTOLUENE		
3-CHLOROTOLUENE		
N-PROPYLBENZENE		
4-CHLOROTOLUENE		0.29
3-ETHYLTOLUENE	0.83	0.46
4-ETHYLTOLUENE	0.46	
1,3,5-TRIMETHYLBENZENE		
2-ETHYLTOLUENE		0.18
T-BUTYLBENZENE		0.59
1,2,4-TRIMETHYLBENZENE	2.47	1.03
1,3-DICHLOROBENZENE		
1-DECENE		
A-CHLOROTOLUENE		
1,5-DICHLOROPENTANE		
DECANE		0.41
SEC.BUTYLBENZENE		
3-(CHLOROMETHYL)-HEPTANE		
1,2,3-TRIMETHYLBENZENE		
1-ISOPROPYL-4-METHYLBENZENE		
1,2-DICHLOROBENZENE		
INDAN		
N-BUTYLCYCLOHEXANE		
1,3-DIETHYLBENZENE		
1,4-DIETHYLBENZENE		
N-BUTYLBENZENE	0.08	
1,2-DIETHYLBENZENE		
DECALIN		
UNDECANE		
1,2,3,5-TETRAMETHYLBENZENE		
DIISOPROPYLBENZENE		
1,2,3,4-TETRAMETHYLBENZENE		
TETRALIN		
DODECANE		

Total hydrocarbons ug/m3:	35.98	64.94
Alkanes ug/m3	13.93	39.67
Cycloalkanes ug/m3	0.20	2.05
Alkenes ug/m3	0.11	0.15
Cycloalkenes ug/m3	0.00	0.00
Alkynes ug/m3	0.00	1.23
Aromatics ug/m3	20.83	20.61
Chlorinated alkanes ug/m3	0.45	0.83
Chlorinated alkenes ug/m3	0.46	0.11
Chlorinated aromatics ug/m3	0.00	0.29
Total # of compounds identified	20	37
Total # of peaks	120	88
Total area of peaks	4000.00	3921.50
Area of identified peaks	1400.00	2631.40
Area % identified peaks	35	67
Toluene:Ethylbenzene		2.27
Benzene:Ethylbenzene		2.38
Xylenes:Ethylbenzene		3.66
Ethylbenzene:Ethylbenzene		1.00

SURVEY NAME

LONDON AUGUST-SEPTEMBER 1984

MAMU#2
units ug/m3 DATE: AUGUST 27/84

MAMU LOCATION # 271B

TIME PERIOD 1645-1745

PROPANE	
PROPADIENE	
PROPYNE	
CHLOROMETHANE	
CYCLOPROPANE	
ISOBUTANE	
VINYL CHLORIDE	
1-BUTENE	
1,3-BUTADIENE	
BUTANE	0.77
1-BUTYNE	
CHLOROETHANE	
3-METHYL-1-BUTENE	
2-METHYLBUTANE	1.12
1-PENTENE	
PENTANE	0.61
ISOPRENE	
TRANS-2-PENTENE	
DICHLOROMETHANE	
2-METHYL-2-BUTENE	
2-CHLORO-2-METHYLBUTANE	
3-CHLOROPROPENE	
2,2-DIMETHYLBUTANE	
3-METHYL-1-PENTENE	
2,3-DIMETHYLBUTANE	
3-METHYLPENTANE	0.19
1-HEXENE	
CIS-1,2-DICHLOROETHYLENE	
2-CHLOROBUTANE	
HEXANE	0.37
CHLOROFORM	
TRANS-3-HEXENE	
3-CHLORO-2-METHYLPROPENE	
METYHYLCYCLOPENTANE	
1,2-DICHLOROETHANE	
1,1,1-TRICHLOROETHANE	
1-CHLOROBUTANE	
BENZENE	0.72
CARBON TETRACHLORIDE	
CYCLOHEXANE	
2-METHYLHEXANE	
2,3-DIMETHYLPENTANE	
CYCLOHEXENE	
DIBROMOMETHANE	
3-METHYLHEXANE	
1,2-DICHLOROPROPANE	
2,3-DICHLOROPROPENE	
TRICHLOROETHYLENE	
2,2,4-TRIMETHYLPENTANE	
1-HEPTENE	
HEPTANE	0.20
1-CHLORO-3-METHYLBUTANE	

TRANS-2-HEPTENE	
METHYLCYCLOHEXANE	
2,5-DIMETHYLHEXANE	
4-METHYLCYCLOHEXENE	
1-CHLOROPENTANE	
1,1,2-TRICHLOROETHANE	
TOLUENE	1.56
1,3-DICHLOROPROPANE	
2-METHYLHEPTANE	
1,2-DIBROMOETHANE	
1-OCTENE	
TRANS1,2DIMETHYLCYLOHEXANE	
TRANS-4-OCTENE	
TETRACHLOROETHYLENE	
OCTANE	
2-METHYL-1-HEPTENE	
2-OCTENE	
CIS-1,2-DIMETHYLCYCLOHEXANE	
CHLOROBENZENE	
PROPYLCYCLOPENTANE	
ETHYLCYCLOHEXANE	
1-CHLOROHEXANE	
ETHYLBENZENE	0.24
M-XYLENE+P-XYLENE	0.90
STYRENE	
1,4-DICHLOROBUTANE	
O-XYLENE	0.27
1,1,2,2-TETRACHLOROETHANE	
1,2,3-TRICHLOROPROPANE	
1-NONENE	
NONANE	
ISOPROPYLBENZENE	
2-CHLOROTOLUENE	
3-CHLOROTOLUENE	
N-PROPYLBENZENE	
4-CHLOROTOLUENE	
3-ETHYLTOLUENE	
4-ETHYLTOLUENE	
1,3,5-TRIMETHYLBENZENE	
2-ETHYLTOLUENE	
T-BUTYLBENZENE	
1,2,4-TRIMETHYLBENZENE	
1,3-DICHLOROBENZENE	
1-DECENE	
A-CHLOROTOLUENE	
1,5-DICHLOROPENTANE	
DECANE	
SEC.BUTYLBENZENE	
3-(CHLOROMETHYL)-HEPTANE	
1,2,3-TRIMETHYLBENZENE	
1-ISOPROPYL-4-METHYLBENZENE	
1,2-DICHLOROBENZENE	
INDAN	
N-BUTYLCYCLOHEXANE	
1,3-DIETHYLBENZENE	
1,4-DIETHYLBENZENE	
N-BUTYLBENZENE	
1,2-DIETHYLBENZENE	
DECALIN	
UNDECANE	0.24
1,2,3,5-TETRAMETHYLBENZENE	
DIISOPROPYLBENZENE	
1,2,3,4-TETRAMETHYLBENZENE	
TETRALIN	
DODECANE	1.27

Total hydrocarbons ug/m3:	8.46
Alkanes ug/m3	4.77
Cycloalkanes ug/m3	0.00
Alkenes ug/m3	0.00
Cycloalkenes ug/m3	0.00
Alkynes ug/m3	0.00
Aromatics ug/m3	3.69
Chlorinated alkanes ug/m3	0.00
Chlorinated alkenes ug/m3	0.00
Chlorinated aromatics ug/m3	0.00
Total # of compounds identified	13
Total # of peaks	20
Total area of peaks	1227.08
Area of identified peaks	346.70
Area % identified peaks	28
Toluene:Ethylbenzene	6.50
Benzene:Ethylbenzene	3.00
Xylenes:Ethylbenzene	4.87
Ethylbenzene:Ethylbenzene	1.00

SURVEY NAME

LONDON AUGUST-SEPTEMBER 1984

MAMU#2

units ug/m3 DATE: AUGUST 28/84

MAMU LOCATION #	283B	283B
TIME PERIOD	1504-1604	1604-1704
PROPANE		6.32
PROPADIENE		
PROPYNE		
CHLOROMETHANE		
CYCLOPROPANE		
ISOBUTANE		21.29
VINYL CHLORIDE		
1-BUTENE	3.11	
1,3-BUTADIENE	0.47	
BUTANE	66.89	59.77
1-BUTYNE		
CHLOROETHANE		
3-METHYL-1-BUTENE	0.55	0.88
2-METHYLBUTANE	76.31	88.61
1-PENTENE	1.39	2.00
PENTANE	42.05	46.27
ISOPRENE		
TRANS-2-PENTENE	3.27	4.45
DICHLOROMETHANE		2.57
2-METHYL-2-BUTENE	1.26	3.76
2-CHLORO-2-METHYLBUTANE	1.36	4.05
3-CHLOROPROPENE		
2,2-DIMETHYLBUTANE	1.76	1.83
3-METHYL-1-PENTENE	0.31	
2,3-DIMETHYLBUTANE	3.63	3.22
3-METHYLPENTANE	12.43	8.60
1-HEXENE	0.73	
CIS-1,2-DICHLOROETHYLENE		
2-CHLOROBUTANE		
HEXANE	25.44	12.23
CHLOROFORM		
TRANS-3-HEXENE	0.79	0.46
3-CHLORO-2-METHYLPROPENE		
METYHYLCYCLOPENTANE	5.33	4.82
1,2-DICHLOROETHANE		
1,1,1-TRICHLOROETHANE		2.01
1-CHLOROBUTANE		
BENZENE	8.90	5.68
CARBON TETRACHLORIDE		
CYCLOHEXANE	0.81	0.85
2-METHYLHEXANE	24.06	9.09
2,3-DIMETHYLPENTANE		
CYCLOHEXENE		
DIBROMOMETHANE		
3-METHYLHEXANE	19.32	6.71
1,2-DICHLOROPROPANE		
2,3-DICHLOROPROPENE		
TRICHLOROETHYLENE		
2,2,4-TRIMETHYLPENTANE	2.47	1.72
1-HEPTENE		
HEPTANE	8.01	2.30
1-CHLORO-3-METHYLBUTANE		

TRANS-2-HEPTENE	0.60	
METHYLCYCLOHEXANE	2.89	1.13
2,5-DIMETHYLHEXANE	1.71	0.69
4-METHYLCYCLOHEXENE	1.15	
1-CHLOROPENTANE		
1,1,2-TRICHLOROETHANE		
TOLUENE	50.12	12.01
1,3-DICHLOROPROPANE		
2-METHYLHEPTANE	2.97	
1,2-DIBROMOETHANE		
1-OCTENE	1.03	
TRANS1,2DIMETHYLCYLOHEXANE		
TRANS-4-OCTENE		
TETRACHLOROETHYLENE	1.67	
OCTANE	2.72	1.18
2-METHYL-1-HEPTENE		
2-OCTENE		
CIS-1,2-DIMETHYLCYCLOHEXANE		
CHLOROBENZENE		
PROPYLCYCLOPENTANE		
ETHYLCYCLOHEXANE	1.24	0.77
1-CHLOROHEXANE		
ETHYLBENZENE	8.93	2.01
M-XYLENE+P-XYLENE	30.65	6.25
STYRENE		
1,4-DICHLOROBUTANE		
O-XYLENE	7.66	1.85
1,1,2,2-TETRACHLOROETHANE		
1,2,3-TRICHLOROPROPANE	2.23	
1-NONENE		
NONANE	1.69	0.60
ISOPROPYLBENZENE	0.98	
2-CHLOROTOLUENE		
3-CHLOROTOLUENE		
N-PROPYLBENZENE	2.07	0.45
4-CHLOROTOLUENE		
3-ETHYLTOLUENE	4.88	
4-ETHYLTOLUENE		
1,3,5-TRIMETHYLBENZENE	4.25	0.69
2-ETHYLTOLUENE	5.01	0.87
T-BUTYLBENZENE	17.44	
1,2,4-TRIMETHYLBENZENE	14.06	
1,3-DICHLOROBENZENE		
1-DECENE		
A-CHLOROTOLUENE		
1,5-DICHLOROPENTANE		
DECANE	2.95	
SEC.BUTYLBENZENE		
3-(CHLOROMETHYL)-HEPTANE		
1,2,3-TRIMETHYLBENZENE		
1-ISOPROPYL-4-METHYLBENZENE		
1,2-DICHLOROBENZENE		
INDAN		
N-BUTYLCYCLOHEXANE		
1,3-DIETHYLBENZENE	0.37	
1,4-DIETHYLBENZENE	0.85	
N-BUTYLBENZENE	1.58	
1,2-DIETHYLBENZENE		
DECALIN		
UNDECANE		
1,2,3,5-TETRAMETHYLBENZENE		
DIISOPROPYLBENZENE		
1,2,3,4-TETRAMETHYLBENZENE		
TETRALIN		
DODECANE		

Total hydrocarbons ug/m3:	482.35	327.99
Alkanes ug/m3	294.41	270.43
Cycloalkanes ug/m3	10.27	7.57
Alkenes ug/m3	13.51	11.55
Cycloalkenes ug/m3	1.15	0.00
Alkynes ug/m3	0.00	0.00
Aromatics ug/m3	157.75	29.81
Chlorinated alkanes ug/m3	3.59	8.63
Chlorinated alkenes ug/m3	1.67	0.00
Chlorinated aromatics ug/m3	0.00	0.00
Total # of compounds identified	50	36
Total # of peaks	115	70
Total area of peaks	28156.00	16717.00
Area of identified peaks	20648.00	13860.00
Area % identified peaks	73	83
Toluene:Ethylbenzene	5.61	5.98
Benzene:Ethylbenzene	1.00	2.83
Xylenes:Ethylbenzene	4.29	4.03
Ethylbenzene:Ethylbenzene	1.00	1.00

SURVEY NAME

LONDON AUGUST-SEPTEMBER 1984

MAMU#2

units ug/m3 DATE: AUGUST 30/84

MAMU LOCATION #	303B	303B	303B
TIME PERIOD	1534-1634	1634-1734	1734-1834
PROPANE	4.58	16.12	1.14
PROPADIENE			
PROPYNE			
CHLOROMETHANE	0.54		0.53
CYCLOPROPANE			
ISOBUTANE	3.50	1.75	1.55
VINYL CHLORIDE			
1-BUTENE			
1,3-BUTADIENE			
BUTANE	5.99	6.45	4.91
1-BUTYNE			
CHLOROETHANE			
3-METHYL-1-BUTENE			
2-METHYLBUTANE	8.12	8.87	7.59
1-PENTENE			
PENTANE	3.93	6.54	3.83
ISOPRENE			
TRANS-2-PENTENE	0.41	0.47	0.43
DICHLOROMETHANE			
2-METHYL-2-BUTENE		0.34	0.32
2-CHLORO-2-METHYLBUTANE		0.37	0.35
3-CHLOROPROPENE			
2,2-DIMETHYLBUTANE		0.82	0.30
3-METHYL-1-PENTENE			
2,3-DIMETHYLBUTANE	0.66	0.73	0.60
3-METHYLPENTANE	1.19	1.40	1.12
1-HEXENE			
CIS-1,2-DICHLOROETHYLENE			
2-CHLOROBUTANE			
HEXANE	1.66	1.83	1.45
CHLOROFORM			
TRANS-3-HEXENE			
3-CHLORO-2-METHYLPROPENE			
METYHYLCYCLOPENTANE	0.61	0.55	0.45
1,2-DICHLOROETHANE			
1,1,1-TRICHLOROETHANE		1.29	
1-CHLOROBUTANE			
BENZENE	2.24	19.75	1.26
CARBON TETRACHLORIDE			
CYCLOHEXANE			
2-METHYLHEXANE	1.95	1.68	1.65
2,3-DIMETHYLPENTANE		0.91	0.90
CYCLOHEXENE			
DIBROMOMETHANE			
3-METHYLHEXANE	1.43	1.46	1.20
1,2-DICHLOROPROPANE			
2,3-DICHLOROPROPENE			
TRICHLOROETHYLENE			
2,2,4-TRIMETHYLPENTANE	0.93	0.60	0.53
1-HEPTENE			
HEPTANE	0.59	0.51	0.46
1-CHLORO-3-METHYLBUTANE			

TRANS-2-HEPTENE			
METHYLCYCLOHEXANE	0.29	0.22	0.24
2,5-DIMETHYLHEXANE	0.30		
4-METHYLCYCLOHEXENE			
1-CHLOROPENTANE			
1,1,2-TRICHLOROETHANE			
TOLUENE	5.16	5.29	2.64
1,3-DICHLOROPROPANE			
2-METHYLHEPTANE			
1,2-DIBROMOETHANE			
1-OCTENE			
TRANS1,2DIMETHYLCYLOHEXANE			
TRANS-4-OCTENE			
TETRACHLOROETHYLENE	0.92	0.68	
OCTANE	0.36	0.35	0.27
2-METHYL-1-HEPTENE			
2-OCTENE			
CIS-1,2-DIMETHYLCYCLOHEXANE			
CHLOROBENZENE			
PROPYLCYCLOPENTANE			
ETHYLCYCLOHEXANE			
1-CHLOROHEXANE			
ETHYLBENZENE	0.79	1.20	0.36
M-XYLENE+P-XYLENE	2.24	3.66	0.97
STYRENE			
1,4-DICHLOROBUTANE			
O-XYLENE	0.69	1.08	0.32
1,1,2,2-TETRACHLOROETHANE			
1,2,3-TRICHLOROPROPANE			
1-NONENE			
NONANE	0.16	0.14	0.12
ISOPROPYLBENZENE			
2-CHLOROTOLUENE			
3-CHLOROTOLUENE			
N-PROPYLBENZENE	0.14	0.19	
4-CHLOROTOLUENE			
3-ETHYLTOLUENE			0.39
4-ETHYLTOLUENE			
1,3,5-TRIMETHYLBENZENE	0.20	0.16	
2-ETHYLTOLUENE	0.29	0.27	
T-BUTYLBENZENE			
1,2,4-TRIMETHYLBENZENE			
1,3-DICHLOROBENZENE			
1-DECENE			
A-CHLOROTOLUENE			
1,5-DICHLOROPENTANE			
DECANE			
SEC.BUTYLBENZENE			
3-(CHLOROMETHYL)-HEPTANE			
1,2,3-TRIMETHYLBENZENE	0.19		
1-ISOPROPYL-4-METHYLBENZENE			
1,2-DICHLOROBENZENE			
INDAN			
N-BUTYLCYCLOHEXANE			
1,3-DIETHYLBENZENE			
1,4-DIETHYLBENZENE			
N-BUTYLBENZENE			
1,2-DIETHYLBENZENE			
DECALIN			
UNDECANE			
1,2,3,5-TETRAMETHYLBENZENE			
DIISOPROPYLBENZENE			
1,2,3,4-TETRAMETHYLBENZENE			
TETRALIN			
DODECANE			

Total hydrocarbons ug/m3:	50.06	85.68	35.88
Alkanes ug/m3	35.35	50.16	27.62
Cycloalkanes ug/m3	0.90	0.77	0.69
Alkenes ug/m3	0.41	0.81	0.75
Cycloalkenes ug/m3	0.00	0.00	0.00
Alkynes ug/m3	0.00	0.00	0.00
Aromatics ug/m3	11.94	31.60	5.94
Chlorinated alkanes ug/m3	0.54	1.66	0.88
Chlorinated alkenes ug/m3	0.92	0.68	0.00
Chlorinated aromatics ug/m3	0.00	0.00	0.00
Total # of compounds identified	29	31	28
Total # of peaks	48	58	40
Total area of peaks	3228.50	5231.50	2263.50
Area of identified peaks	2186.50	3867.00	1539.00
Area % identified peaks	68	74	68
Toluene:Ethylbenzene	6.53	4.41	7.33
Benzene:Ethylbenzene	2.84	16.46	3.50
Xylenes:Ethylbenzene	3.71	3.95	3.58
Ethylbenzene:Ethylbenzene	1.00	1.00	1.00

SURVEY NAME

LONDON AUGUST-SEPTEMBER 1984

MAMU#2

units ug/m3 DATE: AUGUST 31/84

MAMU LOCATION #	312B	312B	313B	313B	313B
TIME PERIOD	1011-1111	1111-1211	1244-1344	1344-1444	1444-1544
PROPANE	2.65	2.64	1.53		2.07
PROPADIENE					
PROPYNE					
CHLOROMETHANE	0.50		0.46		0.38
CYCLOPROPANE					
ISOBUTANE	3.23	3.00	0.68		0.60
VINYL CHLORIDE					
1-BUTENE	1.06				
1,3-BUTADIENE					
BUTANE	12.12	11.73	2.19	2.01	2.05
1-BUTYNE					
CHLOROETHANE					
3-METHYL-1-BUTENE					
2-METHYLBUTANE	19.46	15.48	3.83	3.24	3.29
1-PENTENE					
PENTANE		8.43	2.25	1.29	1.85
ISOPRENE			0.94	0.63	
TRANS-2-PENTENE		0.91	0.26	0.25	
DICHLOROMETHANE		0.78			
2-METHYL-2-BUTENE		0.94		0.17	
2-CHLORO-2-METHYLBUTANE		1.02	0.22	0.19	
3-CHLOROPROPENE					
2,2-DIMETHYLBUTANE		0.85	0.18	0.35	
3-METHYL-1-PENTENE					
2,3-DIMETHYLBUTANE	1.13	1.33	0.38	0.27	0.30
3-METHYLPENTANE	3.06	2.53	0.80	0.59	0.60
1-HEXENE					
CIS-1,2-DICHLOROETHYLENE					
2-CHLOROBUTANE					
HEXANE	4.25	3.67	1.21	0.91	0.89
CHLOROFORM					
TRANS-3-HEXENE					
3-CHLORO-2-METHYLPROPENE					
METYHYLCYCLOPENTANE	1.60	1.28	0.37	0.25	
1,2-DICHLOROETHANE					
1,1,1-TRICHLOROETHANE	0.72	1.22	0.51	1.50	0.49
1-CHLOROBUTANE					
BENZENE	3.01	7.02	0.84	3.34	1.39
CARBON TETRACHLORIDE					
CYCLOHEXANE					
2-METHYLHEXANE	4.45	4.25	1.22	0.95	0.97
2,3-DIMETHYLPENTANE			0.67	0.52	0.53
CYCLOHEXENE					
DIBROMOMETHANE					
3-METHYLHEXANE	3.37	3.31	0.97	0.74	0.73
1,2-DICHLOROPROPANE					
2,3-DICHLOROPROPENE					
TRICHLOROETHYLENE		0.25			
2,2,4-TRIMETHYLPENTANE	1.00	0.90	0.26	0.23	0.29
1-HEPTENE					
HEPTANE	1.25	1.41	0.37	0.29	0.28
1-CHLORO-3-METHYLBUTANE					

TRANS-2-HEPTENE					
METHYLCYCLOHEXANE	0.58	0.54	0.15	0.12	0.13
2,5-DIMETHYLHEXANE	0.39	0.39			
4-METHYLCYCLOHEXENE	0.21	0.23			
1-CHLOROPENTANE					
1,1,2-TRICHLOROETHANE					
TOLUENE	7.50	8.48	1.36	1.01	1.49
1,3-DICHLOROPROPANE					
2-METHYLHEPTANE		0.56			
1,2-DIBROMOETHANE					
1-OCTENE					
TRANS1,2DIMETHYLCYLOHEXANE					
TRANS-4-OCTENE					
TETRACHLOROETHYLENE	0.85	0.73		0.38	
OCTANE	0.54	0.61	0.15	0.12	0.13
2-METHYL-1-HEPTENE					
2-OCTENE					
CIS-1,2-DIMETHYLCYCLOHEXANE					
CHLOROBENZENE					
PROPYLCYCLOPENTANE					
ETHYLCYCLOHEXANE		0.22			
1-CHLOROHEXANE					
ETHYLBENZENE		1.40	0.22	0.20	0.27
M-XYLENE+P-XYLENE		4.40	0.67	0.49	0.63
STYRENE		0.14			
1,4-DICHLOROBUTANE					
O-XYLENE		1.35	0.21	0.16	0.22
1,1,2,2-TETRACHLOROETHANE					
1,2,3-TRICHLOROPROPANE					
1-NONENE					
NONANE		0.22	0.11		0.18
ISOPROPYLBENZENE					
2-CHLOROTOLUENE					
3-CHLOROTOLUENE					
N-PROPYLBENZENE		0.28			
4-CHLOROTOLUENE					
3-ETHYLTOLUENE		0.49			
4-ETHYLTOLUENE					
1,3,5-TRIMETHYLBENZENE		0.40			
2-ETHYLTOLUENE					
T-BUTYLBENZENE					
1,2,4-TRIMETHYLBENZENE					
1,3-DICHLOROBENZENE					
1-DECENE					
A-CHLOROTOLUENE					
1,5-DICHLOROPENTANE					
DECANE					
SEC.BUTYLBENZENE					
3-(CHLOROMETHYL)-HEPTANE					
1,2,3-TRIMETHYLBENZENE					
1-ISOPROPYL-4-METHYLBENZENE					
1,2-DICHLOROBENZENE					
INDAN					
N-BUTYLCYCLOHEXANE					
1,3-DIETHYLBENZENE					
1,4-DIETHYLBENZENE	0.17				
N-BUTYLBENZENE	0.23				
1,2-DIETHYLBENZENE					
DECALIN					
UNDECANE					
1,2,3,5-TETRAMETHYLBENZENE					
DIISOPROPYLBENZENE					
1,2,3,4-TETRAMETHYLBENZENE					
TETRALIN					
DODECANE	0.63				

Total hydrocarbons ug/m3:	73.96	93.39	23.01	20.20	19.76
Alkanes ug/m3	57.53	61.31	16.80	11.51	14.76
Cycloalkanes ug/m3	2.18	2.04	0.52	0.37	0.13
Alkenes ug/m3	1.06	1.85	1.20	1.05	0.00
Cycloalkenes ug/m3	0.21	0.23	0.00	0.00	0.00
Alkynes ug/m3	0.00	0.00	0.00	0.00	0.00
Aromatics ug/m3	10.91	23.96	3.30	5.20	4.00
Chlorinated alkanes ug/m3	1.22	3.02	1.19	1.69	0.87
Chlorinated alkenes ug/m3	0.85	0.98	0.00	0.38	0.00
Chlorinated aromatics ug/m3	0.00	0.00	0.00	0.00	0.00
Total # of compounds identified	25	37	28	26	23
Total # of peaks	86	88	42	47	46
Total area of peaks	5880.00	5482.50	1525.00	1476.50	1344.00
Area of identified peaks	3074.00	4097.50	922.00	828.50	818.50
Area % identified peaks	52	75	60	56	61
Toluene:Ethylbenzene		6.06	6.18	5.05	5.52
Benzene:Ethylbenzene		5.01	3.82	16.70	5.15
Xylenes:Ethylbenzene		4.11	4.00	3.25	3.15
Ethylbenzene:Ethylbenzene		1.00	1.00	1.00	1.00

SURVEY NAME

LONDON AUGUST-SEPTEMBER 1984

MAMU#2

units ug/m3 DATE: SEPTEMBER 4/84

MAMU LOCATION #	042B	043B	043B	043B
TIME PERIOD	1141-1241	1248-1348	1348-1448	1448-1548
PROPANE	7.65	1.97	14.01	17.45
PROPADIENE				
PROPYNE				
CHLOROMETHANE				
CYCLOPROPANE				
ISOBUTANE		3.11	4.53	7.29
VINYL CHLORIDE				
1-BUTENE	1.74	1.94	3.68	4.16
1,3-BUTADIENE	2.09	1.86	3.94	4.25
BUTANE	6.81	16.16	17.29	24.76
1-BUTYNE				
CHLOROETHANE				
3-METHYL-1-BUTENE	0.30	0.36	0.51	0.67
2-METHYLBUTANE	19.43	26.45	32.19	41.56
1-PENTENE	0.63	0.71	0.94	1.26
PENTANE	11.68	13.47	17.27	21.42
ISOPRENE	0.77	0.73		1.49
TRANS-2-PENTENE	1.60	1.74	2.22	2.74
DICHLOROMETHANE	0.67	1.09	3.04	1.36
2-METHYL-2-BUTENE	1.55	1.81	2.27	3.11
2-CHLORO-2-METHYLBUTANE	1.67	1.95	1.92	3.36
3-CHLOROPROPENE	0.25	0.25	0.34	0.49
2,2-DIMETHYLBUTANE	0.96	1.02	1.26	1.49
3-METHYL-1-PENTENE	0.12	0.12	0.16	0.20
2,3-DIMETHYLBUTANE	2.21	2.17	2.24	2.60
3-METHYLPENTANE	4.90	4.43	6.20	7.05
1-HEXENE	0.25	0.23	0.35	0.45
CIS-1,2-DICHLOROETHYLENE				
2-CHLOROBUTANE				
HEXANE	7.12	6.14	8.81	9.96
CHLOROFORM				
TRANS-3-HEXENE	0.20	0.19	0.27	0.33
3-CHLORO-2-METHYLPROPENE				
METYHYLCYCLOPENTANE	2.10	1.89	2.70	3.04
1,2-DICHLOROETHANE				
1,1,1-TRICHLOROETHANE	0.60	0.99	0.73	0.92
1-CHLOROBUTANE				
BENZENE	5.48	11.34	6.36	12.01
CARBON TETRACHLORIDE				
CYCLOHEXANE				
2-METHYLHEXANE	7.53	6.33	9.22	10.35
2,3-DIMETHYLPENTANE				
CYCLOHEXENE			0.13	
DIBROMOMETHANE				
3-METHYLHEXANE	5.99	4.94	7.40	8.26
1,2-DICHLOROPROPANE				
2,3-DICHLOROPROPENE	0.49	0.68	1.04	0.44
TRICHLOROETHYLENE	0.44			
2,2,4-TRIMETHYLPENTANE	1.20	1.27	1.39	1.61
1-HEPTENE				
HEPTANE	2.34	1.91	2.82	2.62
1-CHLORO-3-METHYLBUTANE				

TRANS-2-HEPTENE	0.16	0.13	0.21	0.24
METHYLCYCLOHEXANE	0.89	0.78	1.16	1.62
2,5-DIMETHYLHEXANE	0.51	0.47	0.64	0.86
4-METHYLCYCLOHEXENE	0.31	0.26	0.41	0.60
1-CHLOROPENTANE	0.19		0.29	0.42
1,1,2-TRICHLOROETHANE				
TOLUENE	10.73	9.02	13.92	15.22
1,3-DICHLOROPROPANE				
2-METHYLHEPTANE	0.83	0.64	1.03	1.46
1,2-DIBROMOETHANE				
1-OCTENE	0.17	0.15	0.24	0.44
TRANS1,2DIMETHYLCYLOHEXANE	0.14		0.19	0.30
TRANS-4-OCTENE			0.23	
TETRACHLOROETHYLENE	0.82	0.95	0.86	
OCTANE	0.93	0.71	1.10	1.44
2-METHYL-1-HEPTENE				
2-OCTENE				
CIS-1,2-DIMETHYLCYCLOHEXANE				
CHLOROBENZENE				
PROPYLCYCLOPENTANE				
ETHYLCYCLOHEXANE	0.32	0.25	0.38	0.54
1-CHLOROHEXANE				
ETHYLBENZENE	1.86	1.64	2.39	2.58
M-XYLENE + P-XYLENE	5.92	5.26	7.44	7.79
STYRENE	0.47	0.15		
1,4-DICHLOROBUTANE				
O-XYLENE	1.76	1.54	2.25	2.30
1,1,2,2-TETRACHLOROETHANE				
1,2,3-TRICHLOROPROPANE				
1-NONENE				
NONANE	0.37	0.29	0.47	0.42
ISOPROPYLBENZENE	0.26	0.19	0.27	0.22
2-CHLOROTOLUENE				
3-CHLOROTOLUENE				
N-PROPYLBENZENE	0.35	0.42	0.69	
4-CHLOROTOLUENE	0.17			0.65
3-ETHYLTOLUENE	2.95	2.48	3.92	3.97
4-ETHYLTOLUENE	1.22	1.05	1.70	1.63
1,3,5-TRIMETHYLBENZENE	0.83	0.77	1.27	1.13
2-ETHYLTOLUENE	1.03	0.91	1.48	1.36
T-BUTYLBENZENE		3.16	5.03	
1,2,4-TRIMETHYLBENZENE	2.58	2.27	3.61	3.47
1,3-DICHLOROBENZENE			0.17	
1-DECENE				
A-CHLOROTOLUENE				
1,5-DICHLOROPENTANE				
DECANE	0.45	0.34	0.65	0.44
SEC.BUTYLBENZENE				
3-(CHLOROMETHYL)-HEPTANE				
1,2,3-TRIMETHYLBENZENE	0.59	0.52	0.87	
1-ISOPROPYL-4-METHYLBENZENE				
1,2-DICHLOROBENZENE				
INDAN	0.44	0.37	0.53	0.58
N-BUTYLCYCLOHEXANE				
1,3-DIETHYLBENZENE	0.11	0.09	0.16	0.16
1,4-DIETHYLBENZENE				
N-BUTYLBENZENE				
1,2-DIETHYLBENZENE				
DECALIN				
UNDECANE	0.53	0.12	0.22	
1,2,3,5-TETRAMETHYLBENZENE				
DIISOPROPYLBENZENE				
1,2,3,4-TETRAMETHYLBENZENE				
TETRALIN				
DODECANE	1.79			

Total hydrocarbons ug/m3:	138.45	152.18	209.01	246.54
Alkanes ug/m3	83.23	91.94	128.74	161.04
Cycloalkanes ug/m3	3.45	2.92	4.43	5.50
Alkenes ug/m3	9.58	9.97	15.02	19.34
Cycloalkenes ug/m3	0.31	0.26	0.54	0.60
Alkynes ug/m3	0.00	0.00	0.00	0.00
Aromatics ug/m3	36.58	41.18	51.89	52.42
Chlorinated alkanes ug/m3	3.13	4.03	5.98	6.06
Chlorinated alkenes ug/m3	2.00	1.88	2.24	0.93
Chlorinated aromatics ug/m3	0.17	0.00	0.17	0.65
Total # of compounds identified	61	58	61	55
Total # of peaks	112	103	122	106
Total area of peaks	6984.57	8152.64	11212.00	12810.00
Area of identified peaks	5710.25	6335.40	8393.63	10228.50
Area % identified peaks	82	78	75	80
Toluene:Ethylbenzene	5.77	5.50	5.82	5.90
Benzene:Ethylbenzene	2.95	6.91	2.66	4.66
Xylenes:Ethylbenzene	4.13	4.15	4.05	3.91
Ethylbenzene:Ethylbenzene	1.00	1.00	1.00	1.00

SURVEY NAME

LONDON AUGUST-SEPTEMBER 1984

MAMU#2

units ug/m3 DATE: SEPTEMBER 5/84

MAMU LOCATION #	052B	052B	052B	053B	053B
TIME PERIOD	1058-1158	1158-1258	1258-1358	1439-1539	1539-1639
PROPANE	0.89	11.75	1.92	2.13	4.89
PROPADIENE		0.29			
PROPYNE					
CHLOROMETHANE	0.46		0.37		0.47
CYCLOPROPANE					
ISOBUTANE	1.10	0.95	1.06	2.27	0.95
VINYL CHLORIDE					
1-BUTENE					
1,3-BUTADIENE					
BUTANE	3.83	2.82	3.55	7.84	2.96
1-BUTYNE					
CHLOROETHANE					
3-METHYL-1-BUTENE					
2-METHYLBUTANE	5.52	4.25	5.81	12.01	3.92
1-PENTENE					
PENTANE	3.00	2.15	2.95	5.62	1.92
ISOPRENE					
TRANS-2-PENTENE	0.43	0.33	0.40	0.43	0.24
DICHLOROMETHANE	0.85	0.65	0.58		
2-METHYL-2-BUTENE	0.50	0.29	0.42	0.37	0.18
2-CHLORO-2-METHYLBUTANE	0.55	0.32	0.46	0.40	0.20
3-CHLOROPROPENE					
2,2-DIMETHYLBUTANE	0.23	0.20	0.24	0.30	0.18
3-METHYL-1-PENTENE					
2,3-DIMETHYLBUTANE	0.48	0.36	0.47	0.61	0.33
3-METHYLPENTANE	0.93	0.73	0.88	0.86	0.64
1-HEXENE					
CIS-1,2-DICHLOROETHYLENE					
2-CHLOROBUTANE					
HEXANE	1.29	1.02	1.18	1.04	0.82
CHLOROFORM					
TRANS-3-HEXENE					
3-CHLORO-2-METHYLPROPENE					
METYHYLCYCLOPENTANE	0.42	0.33	0.40	0.31	0.28
1,2-DICHLOROETHANE					
1,1,1-TRICHLOROETHANE	0.67	0.69	0.72	0.84	0.57
1-CHLOROBUTANE					
BENZENE	1.19	99.66	1.17	17.18	0.96
CARBON TETRACHLORIDE					
CYCLOHEXANE		0.03			
2-METHYLHEXANE	1.54	1.65	1.38	0.98	0.94
2,3-DIMETHYLPENTANE					
CYCLOHEXENE					
DIBROMOMETHANE					
3-METHYLHEXANE	1.23	0.93	1.03	0.74	0.70
1,2-DICHLOROPROPANE					
2,3-DICHLOROPROPENE					
TRICHLOROETHYLENE	0.11				
2,2,4-TRIMETHYLPENTANE	0.40	0.30	0.41	0.23	0.25
1-HEPTENE					
HEPTANE	0.64	0.50	0.46	0.27	0.26
1-CHLORO-3-METHYLBUTANE					

TRANS-2-HEPTENE					
METHYLCYCLOHEXANE	0.38	0.25	0.25	0.12	0.15
2,5-DIMETHYLHEXANE	0.14				
4-METHYLCYCLOHEXENE	0.11				
1-CHLOROPENTANE					
1,1,2-TRICHLORDETHANE					
TOLUENE	12.24	9.19	6.10	1.55	1.68
1,3-DICHLOROPROPANE					
2-METHYLHEPTANE				0.15	0.20
1,2-DIBROMOETHANE					
1-OCTENE					
TRANS1,2DIMETHYLCYLOHEXANE					
TRANS-4-OCTENE					
TETRACHLOROETHYLENE	0.57	0.40	0.39	0.36	0.58
OCTANE	0.42	0.34	0.30	0.23	0.32
2-METHYL-1-HEPTENE					
2-OCTENE					
CIS-1,2-DIMETHYLCYCLOHEXANE					
CHLOROBENZENE		0.27			
PROPYLCYCLOPENTANE					
ETHYLCYCLOHEXANE	0.21	0.12	0.16		0.16
1-CHLOROHEXANE					
ETHYLBENZENE	10.07	7.15	5.10	0.48	0.26
M-XYLENE + P-XYLENE	40.09	28.75	20.94	2.21	0.76
STYRENE					
1,4-DICHLOROBUTANE					
O-XYLENE	9.50	7.04	5.37	0.77	0.23
1,1,2,2-TETRACHLOROETHANE					
1,2,3-TRICHLOROPROPANE					
1-NONENE					
NONANE	0.62	0.42	0.40	0.17	0.12
ISOPROPYLBENZENE	0.27	0.21	0.18		
2-CHLOROTOLUENE					
3-CHLOROTOLUENE					
N-PROPYLBENZENE	0.36	0.22	0.21		
4-CHLOROTOLUENE	0.26	0.16	0.19	0.26	
3-ETHYLTOLUENE	2.28	1.45	1.55	0.82	0.13
4-ETHYLTOLUENE		0.66			
1,3,5-TRIMETHYLBENZENE	0.64	0.49	0.43	0.25	
2-ETHYLTOLUENE	0.76	0.56	0.52	0.30	
T-BUTYLBENZENE			2.00		
1,2,4-TRIMETHYLBENZENE	1.92	1.55	1.43	0.69	
1,3-DICHLOROBENZENE					
1-DECENE					
A-CHLOROTOLUENE					
1,5-DICHLOROPENTANE					
DECANE	0.55	0.42	0.43	0.22	
SEC.BUTYLBENZENE					
3-(CHLOROMETHYL)-HEPTANE					
1,2,3-TRIMETHYLBENZENE	0.45	0.34	0.27	0.14	
1-ISOPROPYL-4-METHYLBENZENE					
1,2-DICHLOROBENZENE					
INDAN	0.14	0.12	0.09		
N-BUTYLCYCLOHEXANE					
1,3-DIETHYLBENZENE					
1,4-DIETHYLBENZENE					
N-BUTYLBENZENE					
1,2-DIETHYLBENZENE					
DECALIN					
UNDECANE	0.51	0.29			
1,2,3,5-TETRAMETHYLBENZENE					
DIISOPROPYLBENZENE					
1,2,3,4-TETRAMETHYLBENZENE					
TETRALIN					
DODECANE	1.82				

Total hydrocarbons ug/m3:	110.57	190.60	72.17	63.15	26.25
Alkanes ug/m3	25.14	29.08	22.47	35.67	19.40
Cycloalkanes ug/m3	1.01	0.73	0.81	0.43	0.59
Alkenes ug/m3	0.93	0.91	0.82	0.80	0.42
Cycloalkenes ug/m3	0.11	0.00	0.00	0.00	0.00
Alkynes ug/m3	0.00	0.00	0.00	0.00	0.00
Aromatics ug/m3	79.91	157.39	45.36	24.39	4.02
Chlorinated alkanes ug/m3	2.53	1.66	2.13	1.24	1.24
Chlorinated alkenes ug/m3	0.68	0.40	0.39	0.36	0.58
Chlorinated aromatics ug/m3	0.26	0.43	0.19	0.26	0.00
Total # of compounds identified	45	44	41	35	31
Total # of peaks	74	84	66	69	42
Total area of peaks	6126.60	11798.50	3798.50	3672.50	1226.00
Area of identified peaks	5699.60	10156.00	3460.00	3002.30	1074.00
Area % identified peaks	93	86	91	82	88
Toluene:Ethylbenzene	1.22	1.29	1.20	3.23	6.46
Benzene:Ethylbenzene	0.12	13.94	0.23	35.79	3.69
Xylenes:Ethylbenzene	4.92	5.01	5.16	6.21	3.81
Ethylbenzene:Ethylbenzene	1.00	1.00	1.00	1.00	1.00

SURVEY NAME

LONDON AUGUST-SEPTEMBER 1984

MAMU#2

units ug/m3 DATE: SEPTEMBER 6/84

MAMU LOCATION #	063B	063B
TIME PERIOD	1458-1558	
		1558-1658
PROPANE	1.20	3.99
PROPADIENE		
PROPYNE		
CHLOROMETHANE		
CYCLOPROPANE		
ISOBUTANE	1.81	1.61
VINYL CHLORIDE		
1-BUTENE		
1,3-BUTADIENE		
BUTANE	12.13	5.41
1-BUTYNE		
CHLOROETHANE		
3-METHYL-1-BUTENE		
2-METHYLBUTANE	20.61	8.85
1-PENTENE	0.39	
PENTANE	10.37	4.86
ISOPRENE		
TRANS-2-PENTENE	1.07	0.53
DICHLOROMETHANE		
2-METHYL-2-BUTENE	1.09	0.24
2-CHLORO-2-METHYLBUTANE		
3-CHLOROPROPENE		
2,2-DIMETHYLBUTANE		0.30
3-METHYL-1-PENTENE		
2,3-DIMETHYLBUTANE	1.41	0.82
3-METHYLPENTANE	2.55	1.70
1-HEXENE		0.11
CIS-1,2-DICHLOROETHYLENE		
2-CHLOROBUTANE		
HEXANE	3.20	2.50
CHLOROFORM		
TRANS-3-HEXENE	0.10	
3-CHLORO-2-METHYLPROPENE		
METYHYLCYCLOPENTANE	1.05	0.77
1,2-DICHLOROETHANE		
1,1,1-TRICHLOROETHANE		1.10
1-CHLOROBUTANE		
BENZENE	1.63	10.57
CARBON TETRACHLORIDE		
CYCLOHEXANE		
2-METHYLHEXANE	2.71	2.56
2,3-DIMETHYLPENTANE		
CYCLOHEXENE		
DIBROMOMETHANE		
3-METHYLHEXANE	2.74	2.01
1,2-DICHLOROPROPANE		
2,3-DICHLOROPROPENE		
TRICHLOROETHYLENE		0.15
2,2,4-TRIMETHYLPENTANE	0.92	0.54
1-HEPTENE		
HEPTANE	1.34	0.84
1-CHLORO-3-METHYLBUTANE		

TRANS-2-HEPTENE		
METHYLCYCLOHEXANE	0.54	0.32
2,5-DIMETHYLHEXANE	0.28	0.21
4-METHYLCYCLOHEXENE	0.16	0.11
1-CHLOROPENTANE		
1,1,2-TRICHLOROETHANE		
TOLUENE	6.13	4.84
1,3-DICHLOROPROPANE		
2-METHYLHEPTANE	0.40	
1,2-DIBROMOETHANE		
1-OCTENE		
TRANS1,2DIMETHYLCYLOHEXANE		
TRANS-4-OCTENE		
TETRACHLOROETHYLENE	0.57	0.32
OCTANE	0.48	0.41
2-METHYL-1-HEPTENE		
2-OCTENE		
CIS-1,2-DIMETHYLCYCLOHEXANE		
CHLOROBENZENE		
PROPYLCYCLOPENTANE		
ETHYLCYCLOHEXANE	0.15	0.12
1-CHLOROHEXANE		
ETHYLBENZENE	0.91	0.85
M-XYLENE + P-XYLENE	3.10	2.94
STYRENE		
1,4-DICHLOROBUTANE		
O-XYLENE	0.93	0.88
1,1,2,2-TETRACHLOROETHANE		
1,2,3-TRICHLOROPROPANE		
1-NONENE		
NONANE	0.18	0.18
ISOPROPYLBENZENE		
2-CHLOROTOLUENE		
3-CHLOROTOLUENE		
N-PROPYLBENZENE	0.13	
4-CHLOROTOLUENE	0.08	0.22
3-ETHYLTOLUENE	0.92	0.97
4-ETHYLTOLUENE	0.36	
1,3,5-TRIMETHYLBENZENE	0.25	0.29
2-ETHYLTOLUENE	0.31	0.35
T-BUTYLBENZENE		
1,2,4-TRIMETHYLBENZENE	0.72	0.72
1,3-DICHLOROBENZENE		
1-DECENE		
A-CHLOROTOLUENE		
1,5-DICHLOROPENTANE		
DECANE	0.20	0.18
SEC.BUTYLBENZENE		
3-(CHLOROMETHYL)-HEPTANE		
1,2,3-TRIMETHYLBENZENE	0.15	
1-ISOPROPYL-4-METHYLBENZENE		
1,2-DICHLOROBENZENE		
INDAN	0.10	0.11
N-BUTYLCYCLOHEXANE		
1,3-DIETHYLBENZENE		
1,4-DIETHYLBENZENE		
N-BUTYLBENZENE		
1,2-DIETHYLBENZENE		
DECALIN		
UNDECANE		
1,2,3,5-TETRAMETHYLBENZENE		
DIISOPROPYLBENZENE		
1,2,3,4-TETRAMETHYLBENZENE		
TETRALIN		
DODECANE		

Total hydrocarbons ug/m3:	83.37	63.48
Alkanes ug/m3	62.53	36.97
Cycloalkanes ug/m3	1.74	1.21
Alkenes ug/m3	2.65	0.88
Cycloalkenes ug/m3	0.16	0.11
Alkynes ug/m3	0.00	0.00
Aromatics ug/m3	15.64	22.52
Chlorinated alkanes ug/m3	0.00	1.10
Chlorinated alkenes ug/m3	0.57	0.47
Chlorinated aromatics ug/m3	0.08	0.22
Total # of compounds identified	40	38
Total # of peaks	68	78
Total area of peaks	4219.51	6242.00
Area of identified peaks	3636.41	3052.00
Area % identified peaks	86	49
Toluene:Ethylbenzene	6.74	5.69
Benzene:Ethylbenzene	1.79	12.44
Xylenes:Ethylbenzene	4.43	4.49
Ethylbenzene:Ethylbenzene	1.00	1.00

SURVEY NAME

LONDON AUGUST-SEPTEMBER 1984

MAMU#2

units ug/m3 DATE: SEPTEMBER 7/84

MAMU LOCATION #	0718
TIME PERIOD	1038-1138
PROPANE	13.15
PROPADIENE	
PROPYNE	
CHLOROMETHANE	0.55
CYCLOPROPANE	
ISOBUTANE	4.54
VINYL CHLORIDE	
1-BUTENE	
1,3-BUTADIENE	
BUTANE	10.70
1-BUTYNE	
CHLOROETHANE	
3-METHYL-1-BUTENE	
2-METHYLBUTANE	11.33
1-PENTENE	
PENTANE	5.66
ISOPRENE	
TRANS-2-PENTENE	0.66
DICHLOROMETHANE	0.94
2-METHYL-2-BUTENE	0.49
2-CHLORO-2-METHYLBUTANE	
3-CHLOROPROPENE	
2,2-DIMETHYLBUTANE	0.46
3-METHYL-1-PENTENE	
2,3-DIMETHYLBUTANE	0.94
3-METHYLPENTANE	1.78
1-HEXENE	
CIS-1,2-DICHLOROETHYLENE	
2-CHLOROBUTANE	
HEXANE	2.69
CHLOROFORM	
TRANS-3-HEXENE	
3-CHLORO-2-METHYLPROPENE	
METYHYLCYCLOPENTANE	0.85
1,2-DICHLOROETHANE	
1,1,1-TRICHLOROETHANE	0.87
1-CHLOROBUTANE	
BENZENE	2.46
CARBON TETRACHLORIDE	
CYCLOHEXANE	
2-METHYLHEXANE	3.13
2,3-DIMETHYLPENTANE	
CYCLOHEXENE	
DIBROMOMETHANE	
3-METHYLHEXANE	2.34
1,2-DICHLOROPROPANE	
2,3-DICHLOROPROPENE	
TRICHLOROETHYLENE	0.18
2,2,4-TRIMETHYLPENTANE	0.91
1-HEPTENE	
HEPTANE	1.06

TRANS-2-HEPTENE	
METHYLCYCLOHEXANE	0.54
2,5-DIMETHYLHEXANE	0.36
4-METHYLCYCLOHEXENE	
1-CHLOROPENTANE	
1,1,2-TRICHLOROETHANE	
TOLUENE	9.21
1,3-DICHLOROPROPANE	
2-METHYLHEPTANE	
1,2-DIBROMOETHANE	
1-OCTENE	
TRANS1,2DIMETHYLCYLOHEXANE	
TRANS-4-OCTENE	
TETRACHLOROETHYLENE	1.23
OCTANE	0.59
2-METHYL-1-HEPTENE	
2-OCTENE	
CIS-1,2-DIMETHYLCYCLOHEXANE	
CHLOROBENZENE	
PROPYLCYCLOPENTANE	
ETHYLCYCLOHEXANE	
1-CHLOROHEXANE	
ETHYLBENZENE	0.91
M-XYLENE + P-XYLENE	2.90
STYRENE	
1,4-DICHLOROBUTANE	
O-XYLENE	0.91
1,1,2,2-TETRACHLOROETHANE	
1,2,3-TRICHLOROPROPANE	
1-NONENE	
NONANE	0.29
ISOPROPYLBENZENE	
2-CHLOROTOLUENE	
3-CHLOROTOLUENE	
N-PROPYLBENZENE	0.19
4-CHLOROTOLUENE	0.19
3-ETHYLTOLUENE	1.51
4-ETHYLTOLUENE	
1,3,5-TRIMETHYLBENZENE	0.38
2-ETHYLTOLUENE	0.48
T-BUTYLBENZENE	
1,2,4-TRIMETHYLBENZENE	1.09
1,3-DICHLOROBENZENE	
1-DECENE	
A-CHLOROTOLUENE	
1,5-DICHLOROPENTANE	
DECANE	0.33
SEC.BUTYLBENZENE	
3-(CHLOROMETHYL)-HEPTANE	
1,2,3-TRIMETHYLBENZENE	0.25
1-ISOPROPYL-4-METHYLBENZENE	
1,2-DICHLOROBENZENE	
INDAN	
N-BUTYLCYCLOHEXANE	
1,3-DIETHYLBENZENE	
1,4-DIETHYLBENZENE	
N-BUTYLBENZENE	
1,2-DIETHYLBENZENE	
DECALIN	
UNDECANE	
1,2,3,5-TETRAMETHYLBENZENE	
DIISOPROPYLBENZENE	
1,2,3,4-TETRAMETHYLBENZENE	
TETRALIN	
DODECANE	

Total hydrocarbons ug/m3:	87.05
Alkanes ug/m3	60.26
Cycloalkanes ug/m3	1.39
Alkenes ug/m3	1.15
Cycloalkenes ug/m3	0.00
Alkynes ug/m3	0.00
Aromatics ug/m3	20.29
Chlorinated alkanes ug/m3	2.36
Chlorinated alkenes ug/m3	1.41
Chlorinated aromatics ug/m3	0.19
Total # of compounds identified	38
Total # of peaks	56
Total area of peaks	4504.49
Area of identified peaks	3638.09
Area % identified peaks	81
Toluene:Ethylbenzene	10.12
Benzene:Ethylbenzene	2.70
Xylenes:Ethylbenzene	4.19
Ethylbenzene:Ethylbenzene	1.00

Appendix C

Weather Synopses

Aug. 27, 1984

High centred over the Carolinas. "Back of high" situation. Region is S-SW flow with typical wind speeds of 10-25 km/h. Airmass dry and stable. Sunny skies prevailed with a maximum temperature of 27°C in the London area.

Aug. 28, 1984

Slow-moving warm frontal system over the district. S-SW winds 10-15 km/h prevailed. Airmass moist and unstable. Cloudy skies with a few showers, and a maximum temperature of 26°C.

Aug. 30, 1984

Frontal system moving through the Lower Great Lakes. Light winds in the morning becoming W-NW 5 to 15 km/h in the afternoon. Airmass and unstable. Cloudy with a few showers. High temperature of 23°C.

Aug. 31, 1984

Region under "front of the high"/behind cold front flow. Light winds in morning becoming W-SW 5 to 15 km/h in the afternoon. Airmass dry and stable. Sunny skies and cool conditions prevailed. High of 22°C.

Sept. 1, 1984

Frontal system over the area. Westerly flow 5 to 10 km/h prevailed. Cloudy with showers. Airmass moist and unstable. High of 21°C.

Sept. 2, 1984

Region in warm sector. Airmass moist and unstable. Partly cloudy with showers/thunderstorms. SE winds 10 to 20 km/h. High of 27°C.

Sept. 3, 1984

Frontal system moving through the Lower Great Lakes. Cloudy with showers. Airmass moist and unstable. Winds N 10 to 15 km/h. High of 20°C.

Sept. 4, 1984

Behind cold front flow. N-NW winds 10 to 20 km/h. Partly cloudy. Airmass moist and unstable. High of 19°C.

Sept. 5, 1984

Frontal system moving through the Lower Great Lakes. Airmass moist and unstable. NW winds 10 to 20 km/h. Variable cloudiness. High of 17°C.

Sept. 6, 1984

High centred over the regions. Light and variable winds 5 to 15 km/h prevailed. Airmass dry and stable. Sunny skies. High of 18°C.

Sept. 7, 1984

Frontal system approaching the region. Cloudy skies. Airmass moist and unstable. SE winds 10 to 25 km/h. High of 20°C.